MR. HENRY

WEST CHESTER STATE COLLEGE BULLETIN

WEST CHESTER, PENNSYLVANIA

undergraduate studies

1967-1968

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catalogue number

VOLUME 95 / NUMBER 6 APRIL, 1967

WEST CHESTER, PENNSYLVANIA 19380

WEST CHESTER STATE COLLEGE

IS ACCREDITED BY

THE MIDDLE STATES ASSOCIATION OF COLLEGES

AND SECONDARY SCHOOLS,

THE NATIONAL COUNCIL FOR ACCREDITATION

OF TEACHER EDUCATION,

THE AMERICAN ASSOCIATION FOR HEALTH,

PHYSICAL EDUCATION, AND RECREATION,

AND THE

NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC

Issued six times a year, November, December, January, February, March, and April, by the Trustees of West Chester State College at West Chester, Pennsylvania.

Entered as second class matter March 3, 1931, at the Post Office at West Chester, Pennsylvania, under the Act of Congress of August 24, 1912.

Second Class Postage Paid at West Chester, Pa. 19380

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College Calendar

1967 - 1968

FALL SEMESTER

Last day to qualify for admission ..... Tuesday, August 1
Faculty and Department Meetings ..... Friday, September 8
Registration
- Part-time and Graduate Students ..... Saturday, September 9
- Freshmen ..... Monday, September 11
- Full-time Readmission and Transfer Students ..... Monday, September 11
- Sophomores and Seniors ..... Tuesday, September 12
- Juniors ..... Wednesday, September 13

Classes begin ..... Thursday, September 14
Thanksgiving Recess
- Begins — close of classes ..... Tuesday, November 21
- Ends — 7:30 A.M. ..... Tuesday, November 28

Chester County Institute ..... Monday, November 27
Christmas Recess
- Begins — close of classes ..... Tuesday, December 19
- Ends — 7:30 A.M. ..... Tuesday, January 2

Final Examinations ..... Thursday, January 11, to Friday, January 19
Fall Semester ends ..... Friday, January 19

SPRING SEMESTER

Last day to qualify for admission ..... Friday, December 15 (1967)
Registration
- Part-time and Graduate Students ..... Saturday, January 20
- Freshmen ..... Tuesday, January 23
- Full-time Readmission and Transfer Students ..... Tuesday, January 23
- Sophomores and Seniors ..... Wednesday, January 24
- Juniors ..... Thursday, January 25

Classes begin ..... Friday, January 26
Spring Recess
- Begins — close of classes ..... Saturday, March 16
- Ends — 7:30 A.M. ..... Monday, March 25

Easter Recess
- Begins — close of classes ..... Thursday, April 11
- Ends — 7:30 A.M. ..... Tuesday, April 16

Final Examinations ..... Thursday, May 16, to Friday, May 24
Alumni Day ..... Saturday, May 25
Commencement ..... Sunday, May 26

Summer Session

1968

Pre Session ..... June 3 - June 21
Regular Session ..... June 24 - August 2
Post Session ..... August 5 - August 23

College Calendar

1968 - 1969

FALL SEMESTER

Last day to qualify for admission ..... Thursday, August 1
Faculty and Department Meetings ..... Friday, September 6
Registration
- Part-time and Graduate Students ..... Saturday, September 7
- Freshmen ..... Monday, September 9
- Full-time Readmission and Transfer Students ..... Monday, September 9
- Sophomores and Seniors ..... Tuesday, September 10
- Juniors ..... Wednesday, September 11

Classes begin ..... Thursday, September 12
Thanksgiving Recess
- Begins — close of classes ..... Tuesday, November 26
- Ends — 7:30 A.M. ..... Tuesday, December 3

Christmas Recess
- Begins — close of classes ..... Saturday, December 21
- Ends — 7:30 A.M. ..... Monday, January 6

Final Examinations ..... Thursday, January 16, to Friday, January 24
Fall Semester ends ..... Friday, January 24

SPRING SEMESTER

Last day to qualify for admission ..... Monday, December 16 (1968)
Registration
- Part-time Students ..... Saturday, January 25
- Freshmen ..... Tuesday, January 28
- Full-time Readmission and Transfer Students ..... Tuesday, January 28
- Sophomores and Seniors ..... Wednesday, January 29
- Juniors ..... Thursday, January 30

Classes begin
- Part-time and Graduate ..... Monday, January 27
- Undergraduate ..... Friday, January 31

Spring Recess
- Begins — close of classes ..... Saturday, March 15
- Ends — 7:30 A.M. ..... Monday, March 24

Easter Recess
- Begins — close of classes ..... Thursday, April 3
- Ends — 7:30 A.M. ..... Tuesday, April 8

Final Examinations ..... Thursday, May 15, to Friday, May 23
Alumni Day ..... Saturday, May 24
Commencement ..... Sunday, May 25

Summer Session

1969

Pre Session ..... June 2 - June 20
Regular Session ..... June 23 - August 1
Post Session ..... August 4 - August 22

Where to Write, Phone, or Go for Information

Persons interested in obtaining information concerning any of the topics listed below should contact the offices indicated. In each case the post office address is West Chester State College, West Chester, Pa. 19380. Telephone: 692-3210 (Area Code 215).

Applications and Admissions
- Undergraduate Studies ... Office of Admissions
- Graduate Studies ... Office of Graduate Studies

Area Research and Service Center
Office of Area Curriculum Coordinator

Athletic Activities ... Office of Athletics
- Coaching Staff
- Intercollegiate Sports Program

Campus Development
Office of Facilities Development and Management

Certification Requirements for Teaching
Office of Undergraduate Studies

Clinics
- Reading ... Department of Education
- Speech ... Department of Speech and Theater

Courses and Curriculums ... Office of Undergraduate Studies

Cultural Activities
- All-Star Course ... Department of Music
- Assembly Series and Philips Lecture Series ... Office of Student Affairs
- Concerts and Recitals ... Department of Music
- Theater 208 ... Department of Speech and Theater

Educational Services
- Audio-Visual Aids ... Educational Media Center
- Data Processing ... Office of Research
- Film Service
  Del-Chester Regional Instructional Materials Center

Radio and Television ... Educational Media Center

Faculty Speakers ... Office of Public Relations

Financial Matters ... Office of Business Affairs

Graduation Requirements ... Office of Undergraduate Studies

Housing ... Office of Student Affairs
- Men ... Dean of Men
- Women ... Dean of Women

Liberal Arts and Sciences Inquiries
Office of Liberal Arts and Sciences

Placement Service ..... Placement Office

Publications
Annual Report ..... Office of Public Relations
Catalogs (Graduate) ..... Office of Graduate Studies
Catalogs (Undergraduate) ..... Office of Admissions
Student Publications ..... Office of Student Affairs
TORCH: Journal of Research
and Creative Writing ..... Office of Research

Selective Service Information and Veterans' Affairs
Office of Undergraduate Studies

Student Aid ..... Office of Student Affairs
Scholarships and loans
Student work opportunities

Teacher Education Inquiries
Elementary Education ..... Department of Education
Health and Physical Education
Department of Health and Physical Education
Music Education ..... Department of Music
Secondary Education ..... Office of Undergraduate Studies

Transcripts of College Credits ..... Registrar's Office

Use of College Facilities
Office of Facilities Development and Management

The Darlington Herbarium, housed in Schmucker Science Center, is one of the country's esteemed collections, often prompting American botanists to visit the College. Its 10,000 specimens probe Chester County plants exhaustively and world plants discerningly. The collection was gathered by Dr. William Darlington (1782-1863), a scholarly West Chester citizen and an eminent American naturalist who played a vigorous role in the "golden age of botany" during the first half of the last century.

INTRODUCING WEST CHESTER

its early years
the college today
the years ahead

West Chester State College

West Chester's History

The usual historical sketch of a college begins with mention of its founding year. West Chester cannot be introduced quite that simply, for the present College has come into being through a series of changes, largely determined as the Commonwealth assumed increasing responsibility for the education of the youth of Pennsylvania.

Yet it is true that, since 1812, an educational institution bearing the name of West Chester and devoted to the training of teachers has been in existence. In its initial stage, the school was known as West Chester Academy. Classed by the Commonwealth as a "state-aided County Academy," it was non-sectarian, privately owned, and, in the assessment of Samuel Pyle Wickersham, the 19th century educator and diplomat, "for more than fifty years one of the leading schools of its class in eastern Pennsylvania."

In 1869, under encouragement from the Commonwealth, the Academy was closed and its properties sold, to make way for a district normal school. Funds from the sale helped finance the West Chester Normal School which, in September of 1871, admitted 160 charter students to its new building (with wings added, it is Old Main today). The Normal School operated as a privately owned but state-certified institution until 1913 when it became the first of the Pennsylvania normal schools to be owned outright by the Commonwealth.

In 1927, Pennsylvania introduced the four-year program of teacher training and renamed the school West Chester State Teachers College.

The way was paved for an even broader program on January 8, 1960, when the Legislature gave the College its present name.

West Chester State College Today

West Chester today is a multi-purpose institution offering the B.S., the B.A., and the M.Ed. degrees. It continues to make its primary objective the preparation of teachers for the public schools of Pennsylvania. Degrees are offered in four basic curriculums — elementary, secondary, music, and health and physical education. Degree curriculums for Public School Nurses and Dental Hygienists are also provided, and the College has a program of courses designed to meet certification requirements in the field of safety education and in the Special Education fields training for the teaching of the mentally retarded and of physically handicapped children.

In addition, West Chester maintains an extensive two-track program for teachers-in-service. One phase of the program is composed of late-afternoon, evening, and Saturday courses for those desiring to satisfy various professional needs, certification requirements among them. The second phase is a graduate program leading to the Master of Education degree in the following fields: elementary education, health and physical education, music education, English, social sciences, French, German, Spanish, biology, geography, mathematics, physical science, chemistry, guidance, and — pending Department of Public Instruction approval — physics. A certification program in audio-visual education is also available. Graduate study toward the M.Ed. degree may be pursued on a full-time basis during the fall and spring semesters and summer sessions.

The second major objective of the College program is to provide a liberal arts education for the youth of the Commonwealth. To this end, the College was officially approved by the State Council of Education for the purpose of offering a liberal arts program, effective September, 1962. The four-year program now leads to a Bachelor of Arts degree in humanities, social sciences, natural sciences, and mathematics.

The continued growth and improvement of the College's curricular offerings is an ongoing concern of the Administration and faculty. Under the leadership of the Dean of Faculty and Academic Affairs and the Curriculum Development Committee, periodic evaluations are made, with emphasis on both subject matter content and methods of teaching. Special ad hoc committees make continuous study of a broad range of curricular problems

and report their findings and recommendations to the faculty and the Administration.

The College anticipates its ten-year re-accreditation by the National Council for the Accreditation of Teacher Education and by the Middle States Association of Colleges and Secondary Schools during the present (1967-1968) academic year.

The various programs at West Chester are comprehensive, designed to satisfy the intellectual, physical, and spiritual needs of all students. A wide span of extracurricular activities — lectures, concerts, entertainments, religious clubs, and undergraduate publishing among them — affords each student opportunities to enrich his personality and character, to mingle purposefully with his fellow students and his faculty, and to seek the fullest expression of his talents and potential capacities.

Location of the College

West Chester State College is situated in West Chester, the county seat of Chester County, Pennsylvania. A town of great charm and character, West Chester has a population of 16,000, and even though it is part of the growing suburban area of greater Philadelphia, it cherishes and preserves its unique historic traditions and heritage, tracing back to the years when William Penn established his Colony. West Chester, Chester County, and in turn the College continue to reflect the grace of an early culture deeply influenced by the Society of Friends.

Within a short distance from the campus are the famed Longwood Gardens, Valley Forge, and the Brandywine battlefield. Philadelphia, 25 miles to the east, and Wilmington, Delaware, 15 miles to the south, are accessible by train, bus, or car.

The West Chester Pike (Route 3) approaches West Chester directly from Philadelphia. From the Downingtown Interchange of the Pennsylvania Turnpike, West Chester is a distance of nine miles by way of Route 100 South, which, within the community of West Chester, is High Street, the eastern boundary of the campus.

Those using public transportation may connect with Red Arrow buses at the 69th Street terminal in Philadelphia or with Short Line buses at the Paoli station of the Pennsylvania Railroad.

Campus Expansion

Today's explosive growth in higher education is a development so phenomenal that it has long since spilled out of the academic journals onto the front pages of the nation's newspapers and into television screens. The commotion of the bulldozer and the sight of glass, brick, and steel rising into the skylines of many American towns and cities are vividly communicating the story of growth and change in educational patterns.

This is importantly so at West Chester as the College moves into the second half of its twelve-year expansion program. Developed within the framework of the 1960-1972 Comprehensive Plan for West Chester State College, the expansion program involves an estimated expenditure of $45,000,000. When it is completed, West Chester will be a transformed institution contained in two major areas: North Campus and South Campus, together utilizing some 350 acres of land.

The transformation must be anticipated not merely in terms of increased classrooms and living quarters, though the fact that there will be accommodations for some 5,600 full-time students is in itself consequential.

The larger significance is that West Chester will have the laboratories, the designs, the flexibility, and the various teaching tools of the electronic age, called for as science and education together move toward the next century.

A number of the elements conceived under the Comprehensive Plan have been completed and are serving West Chester well today. They include the first phase of Schmucker Science Center, with its excellent setting for the teaching of the biological sciences; the new Francis Harvey Green Library, which has vastly enhanced the campus; Lawrence Hall (a dining and student-services facility); three new high-rise dormitories for women; modern additions to Anderson Hall; and the water pedisphere essential to the new dormitories.

Barring delay, the second phase of Schmucker Science Center, providing chemistry and physics laboratories, graduate research areas, a planetarium, and an astronomical laboratory, will be ready for students in the fall of 1968.

Between 1968 and 1969 the College expects to complete the following major centers and buildings:

The Health and Physical Education Center, budgeted for four million dollars and due by the spring of 1969. Among its notable components are its research facilities, its multi-purpose teaching stations, and a one-acre gymnasium divisible into six separate pneumatically sealed gymnasiums. The Center's design has already won national attention. The large facility will be the heart of South Campus, which will also contain numerous athletic fields and an outdoor band shell furnishing a setting for various cultural pursuits of both the College and the southeastern service area of the Commonwealth.

The Learning Research Center, which will stand at the corner of High Street and Rosedale Avenue. It will provide eight new classrooms, research laboratories, computer and data processing centers, closed circuit television, an auditorium, and a gymnasium. Here, elementary education students will work with school children in a new kind of "learning world."

The Fine Arts Building, adjacent to the Music Department's Swope Hall, with classrooms and galleries for art, and classrooms and areas appropriate to the needs of foreign languages and music.

Three additional high-rise dormitories and a **Maintenance Building.**

Francis Harvey Green Library

Library hours became a very different experience for West Chester students in the fall semester of 1966 as they began to enjoy the space, beauty, convenience, and modern equipment of the new Francis Harvey Green Library. The handsome contemporary building provides a setting richly conducive to study and research. Fronting on the quadrangle, it is adjacent to the old library, which continues in use, serving various purposes.

In addition to a collection of approximately 115,000 volumes, the Francis Harvey Green Library has an enviable collection of microfilm and microfische and subscribes to more than 700 periodicals and newspapers. It also has the four folios of Shakespeare's plays (1623-1685), and the Sanderson **Biographies of the Signers of the Declaration of Independence,** with autographs of the signers. Its collection of sheet music, scores, and records is housed in Swope Hall. The library is affiliated with the Union Library Catalogue of the Philadelphia Area.

The College Educational Media Center

The College Educational Media Center provides assistance for instructional personnel who are planning and producing educational media used in their courses. The Center supplies the campus with audio-visual equipment such as motion pictures and film strips, projectors, tape recorders, record players, etc. The Center also houses the College Film Library, and provides procuring services for film and other materials from outside sources.

The closed-circuit television system is operated by the Center, and segments of appropriate courses are taught by television. Another service of the Center is production in the areas of motion pictures and still photography, recording, duplicating, and overhead transparencies.

The Delaware-Chester Regional Instructional Materials Center

The Delaware-Chester Regional Instructional Materials Center is housed on the College campus. The Center — the first of such joint regional centers to be formed in Pennsylvania under a State-supervised plan — has nearly 35,000 films dealing with many fields of elementary and secondary education.

Membership is limited to the Delaware and Chester County public schools, who pay on a per-pupil basis. Thirty school districts, with a total enrollment of more than 101,000, belong.

College faculty and student teachers may make use of the Center's facilities.

Office of Research and Data Processing

The function of the Office of Research and Data Processing is to foster the development of basic, applied, and institutional research and to provide facilities for the tabulation and analysis of research data.

The research function of the Office encompasses studies initiated by faculty and administrative staff of the College as well as cooperative endeavors carried on under the joint sponsorship

of the College and various external educational agencies and foundations.

Data processing services include the tabulation and summarization of information essential to the operation of the various administrative divisions of the College and the statistical treatment and computer analysis of experimental data obtained from faculty and student research activities. The Mathematics Department periodically offers courses in Basic Computer Science, Computer Programming, and Numerical Analysis.

The Area Educational Research and Service Center

The Area Educational Research and Service Center, serving the school districts of Chester, Delaware, and Montgomery Counties, is maintained at West Chester, under a program established by the Pennsylvania Department of Public Instruction. The Center's main purpose is to encourage regional cooperation in the improvement of curriculum development. Among its services, developed cooperatively with the school districts of the three counties, are the following: (1) publication of **Curriculum Highlights**, a newsletter; (2) sponsorship of educational seminars; and (3) assistance to local districts in securing Title III, Elementary Secondary Education Act, grants. Coordinating services in connection with the National Defense Education Act are also provided for school districts of the three suburban counties and of Berks County.

The Center was established in late 1965 as a replacement of the former Curriculum Area Nine. Its program is directed by the Area Curriculum Coordinator.

A mahogany clock which once graced the home of Benjamin Franklin and the telescope used by General Anthony Wayne are among the prized historical properties of the College. Both are legacies from the old West Chester Academy, forerunner to the present West Chester. The Academy stood on West Gay Street.

ADMISSION TO WEST CHESTER STATE COLLEGE

Admission to West Chester State College

Admission to West Chester State College is generally based upon the satisfactory completion of the college preparatory program in the secondary schools. In exceptional circumstances an outstanding student may enter from another curriculum, but in order to compensate for certain gaps in his academic background he will have a heavy and demanding program of study. Before accepting him, the College will require evidence of superior scholarship and capabilities.

No more than five per cent of each freshman class at West Chester may be composed of out-of-state students. They are chosen on a highly selective basis. In addition to meeting the College's requirements they must have special abilities, particularly in fields where the demand for teachers is acute and in certain professions and industries where college-trained personnel is urgently needed.

The student who has decided to explore the College is invited to visit the campus, talk with West Chester students, and meet faculty members.

The student who embarks upon the admissions procedure at West Chester ought to approach his conferences comfortably, knowing that they are a mutual exploration. Finally, he should understand that the College's decision on his candidacy is not a rigid and impersonal matter but a thoughtful equating of records, tests, and personal judgments.

West Chester welcomes qualified students, faculty, and staff from all racial, religious, ethnic, and socio-economic backgrounds.

Secondary School Requirements

The candidate must furnish evidence of graduation, with satisfactory scholarship, from an approved secondary school. In cases where the student has attended a non-accredited school, or his preparation has been unusual in some other way, the College will submit his credentials to the Credentials Division of the Pennsylvania Department of Public Instruction, which will determine whether they are acceptable.

College Board Examinations

REQUIRED Every candidate must take the College Entrance Examination Board's Scholastic Aptitude Test (SAT) and its English Composition Achievement Test.

Those seeking admission to the Secondary Education curriculum are also required to take the achievement test related to their intended major field.

Candidates for the Liberal Arts and Sciences program are required to take the achievement test related to their major field and, if they have had a foreign language, to take the achievement test in that language.

RECOMMENDED Candidates for all other curriculums are urged to take one achievement test of their choice in addition to the required English test.

Students with satisfactory scores on the Scholastic Aptitude Test may be provisionally approved for admission, with the understanding that their subsequent achievement test scores must be adequate.

Students whose English Composition Achievement Test scores are conspicuously high may be exempted from the first required course in English composition their freshman year. Conversely, applicants with low scores in the English test will have to take a remedial English course, either in the summer session preceding their freshman year or during their first freshman semester.

ARRANGING FOR THE TESTS Application forms and such pertinent information as "time and place" are supplied by school guidance counselors. This material and information may also be obtained directly from the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey 08540.

WHEN TESTS ARE GIVEN College Board examinations are offered in December, January, March, May, and July, but applicants who take the Scholastic Aptitude Test no later than January will be given preference for September admission. Achievement tests in the fields of English, languages, mathematics, and social science should be taken in December, January, or March. Achievement tests in such one-year subjects as chemistry and physics may be taken in May.

SUBMITTING SCORES TO WEST CHESTER The scores must be sent directly to the Admissions Office by the College Entrance Examination Board. There is a place for this instruction on the Board's application form.

In all cases, junior or senior year scores will be accepted.

Required References

HEALTH The College will need evidence from the student's physician that the applicant is in good physical condition. Forms for the necessary health examination will be supplied by the College at the proper time.

If an applicant has physical or health handicaps so major as to prevent him from pursuing his studies independently and competently, the College may conclude that West Chester is not the suitable place for him to undertake college work.

CHARACTER A written evaluation of the applicant must be included with the transcript. It may come from the principal, a guidance staff member, or another school official, and should appraise the student's character, personality, interests, abilities within the school community, and his promise of development.

Required Interviews and Conferences

Before making a favorable decision upon an application, the College asks the student to come for either an interview or a general admissions conference.

Citizenship Requirement for Teachers

To be eligible for a teacher's certificate in Pennsylvania, a student must be a citizen of the United States.

Additional Requirements and Recommendations in Specific Fields

FOREIGN LANGUAGES Although previous study in foreign language is not required, the College views it as highly desirable for those planning to enter the Liberal Arts and Sciences curriculum or a foreign-language field in Teacher Education.

MATHEMATICS Students intending to elect mathematics as their area of concentration must present three secondary units of mathematics, algebra and plane geometry among them.

HEALTH AND PHYSICAL EDUCATION Students are not eligible for this curriculum unless they have participated in both the physical education classes and the extracurricular athletic programs of their secondary schools. The pre-admission interview will evaluate the extent of participation in athletic programs and the evidence of leadership qualities.

MUSIC EDUCATION The College gives special attention to both the musical ability and the promise of professional development shown by candidates for the Music Education curriculum. All applicants are required to take music qualifying tests, which are regularly scheduled throughout the academic year. The principal purpose of these tests (or auditions) is to determine whether the candidate has enough proficiency in one or more of the major performing areas to undertake the Music Education curriculum. They also measure the musicality of the candidate and the extent of his general groundwork in music.

The mediums considered areas of major performance are: vocal, piano and/or organ, and the band and orchestral instruments enumerated below.

The tests may be summarized as follows:

(1) Every candidate takes a sight-singing test, based on such elementary literature as folk songs, to determine the degree of ear training.

(2) Every candidate is given a vocal test determining ability to sing with acceptable voice quality and interpretation.

(3) Every candidate takes a performance test in one (or more) of the major areas. This must give evidence of mastery of at least fourth-grade material.

(4) In addition, applicants whose major area is other than the piano must either evidence an ability to perform on the

piano at approximately a second-grade level or, lacking this, demonstrate musical talent sufficient to remedy the deficiency.

The Music Department considers the following band/orchestra instruments acceptable for a major: violin, viola, 'cello, bass, trumpet, trombone, baritone, tuba, French horn, oboe, English horn, flute, clarinet, and bassoon. The marimba, saxophone, accordion, drums, etc. are not viewed as major-area performance instruments.

Candidates must first file an application form with the Director of Admissions. The Music Department will then send the applicant notice of the date and hour for his audition.

How and When to Apply for Admission

Candidates may obtain complete forms and instructions by sending the request for application forms found at the back of this catalog to the Director of Admissions.

Candidates for the fall semester are urged to initiate the application procedure immediately after completing their junior year of secondary school. Facilities permitting, the Director of Admissions will accept applications throughout the winter and spring of the year in which admission is desired.

Candidates for the spring semester should submit the request by November 1. They must take their required College Board tests no later than July.

Out-of-state students should write to the Admissions Office, giving the reasons for their interest in West Chester, their desired field of study, and their scholastic and College Board achievements.

FEES Information pertaining to required fees may be found in the section entitled "Expenses."

LAST DAY FOR ADMISSION OF NEW FRESHMEN All application procedures must be completed and in the Admissions Office by August 1 for a fall semester or December 15 for a spring semester. If enrollment quotas become filled before these dates, admissions will be closed.

HOW DECISIONS ARE MADE KNOWN All candidates seeking admission as freshmen will hear from the Director of Admissions as soon as possible after decisions on their applications are reached. Notices of decisions will go to their secondary schools as well.

Candidates in all other categories, such as special students and transfer students, will also be notified of decisions by the Director of Admissions.

Readmission of Former Students

Students who have withdrawn from West Chester for acceptable reasons may ask the Admissions Office for an application for readmission. Those who have attended any institutions of higher learning since leaving West Chester must request those institutions to forward transcripts of their records to the Admissions Office.

Students who intend to enroll in student teaching in the first semester of their readmission must file an application for student teaching with the Director of Student Teaching at least four months before the date of their expected readmission.

Students who were dismissed or asked to withdraw for academic reasons, and those who withdrew from the College with a scholastic index less than required for their classification, will not be considered for readmission as full-time students for at least one academic semester, and then only if their scholastic index has been raised by attendance at evening school or summer school to that required for their classification. In order to remain in the College after readmission, such students must maintain at least a 2.00 scholastic index.

All readmission applications must be filed not later than August 1 for the fall semester or December 15 for the spring semester. If enrollment quotas become filled prior to these dates, admissions will be closed.

Admission of Special Students

Graduates of other colleges who wish to complete the requirements for a teacher's certificate may apply for admission as special students. Application forms and information may be secured from the Director of Admissions. Applications and credentials must be filed by August 1 for the fall semester and December 15 for the spring semester. Admissions will be closed prior to these dates if enrollment quotas become filled.

Special students seeking teaching certification at West Chester must apply for student teaching immediately after receiving a letter of admission. Approval for student teaching will depend

upon the satisfactory completion of the prerequisite professional education courses. Only those who apply early will have a student teaching station reserved. Student teaching application forms may be secured from the Director of Student Teaching.

Admission of Transfer Students

Students who have previously been enrolled in any institution of collegiate rank, regardless of how long, are classified as transfer students. A cumulative grade point average of 2.00 or higher is required for their admission to West Chester.

No more than five per cent of the College's transfer enrollment may be students who are not legal residents of Pennsylvania. Out-of-state students will be chosen selectively, on the basis of special abilities and in the light of particular needs for teachers in certain fields and for college-trained personnel in various professions and industries.

The last day to qualify for admission to the fall semester is August 1 and for the spring semester, December 15. If quotas are filled prior to those dates, enrollment will be closed earlier. Actually, September quotas are usually reached in May.

An applicant must file transfer application forms, obtainable from the Admissions Office, and must also see that the Director of Admissions receives the following material:

(1) An official transcript of record from each institution attended. To be acceptable, this must show honorable dismissal. If a preliminary (incomplete) transcript is submitted, it is the student's responsibility to have a completed transcript filed later.

(2) A letter of recommendation from the Dean of Men (for men) or the Dean of Women (for women) of the last college attended full-time. To qualify the student for admission, the letter must state that the student's disciplinary record was entirely satisfactory.

(3) Two letters of recommendation from persons (not relatives) who have known the applicant well in his home community.

(4) A letter from the applicant, explaining frankly and fully his reasons for wishing to transfer to West Chester.

(5) Students with less than two semesters of college experience (less than 30 semester hours of credit) must supply College Board Scholastic Aptitude Test scores. These must meet the College's minimum for the curriculum concerned.

It is the applicant's responsibility to ask the Admissions Office for an appointment for the required interview, after an application, including either a preliminary or final transcript, is on file.

Students enrolled in other institutions during the fall semester, and applying for admission the following spring semester, must supply mid-term grades for the semester in progress.

Admission of qualified transfer students is subject to the availability of a place in the classes to which they should be assigned. Students other than commuting students will be approved only if residence facilities are available.

Advanced Credit Requirement

Advanced credit may be granted for equivalent courses completed in *accredited* institutions of collegiate grade.

Credit will not be transferred if the course grade is the lowest passing grade of the institution assigning it. If D is the lowest passing mark, courses so marked will not be accepted. If numerical marking is used, courses will be accepted when the grade is ten or more points above the passing mark.

Applicants from collegiate institutions (including community colleges and junior colleges) which are *not accredited* by one of the six Regional Associations in the United States will be considered for admission under the following regulations:

(1) An applicant's cumulative grade point average must be 2.00 (C) or better and, in the cases of community and junior colleges, must meet their recommended mark for transfer.

(2) The evaluation of *academic* courses listed on transcripts from an institution not accredited by one of the six Regional Associations will be made in accordance with the recommendations of the American Association of Collegiate Registrars and Admissions Officers in their *Report of Credit Given by Educational Institutions*. Thus, if the *Report* recommends that an institution's credits be recognized for transfer, West Chester will accept them for equivalent courses, provided the grades earned are C or better.

(3) The evaluation of courses applying to the special areas of health and physical education and music education will be made by the respective departments in accordance with their established policy.

HEALTH EDUCATION Under the provisions of the national professional association, all colleges offering health, physical education, and recreation have reciprocal transfer relationships. Thus, a student wishing to transfer in health and physical education will receive transfer credits in the major field in terms of major courses satisfactorily passed (C or better) at a college accredited by the National Council for Accreditation of Teacher Education and the American Association for Health, Physical Education, and Recreation. Academic courses will be evaluated as stated in **2,** above.

MUSIC EDUCATION Credit will be allowed only on the basis of music tests for music courses. Academic courses will be evaluated as stated in **2,** above.

(4) Not more than two years of work (64 hours of credit) will be allowed for courses taken at a community college or junior college.

(5) Applicants must submit scores for the College Board Scholastic Aptitude Test which meet the minimum established by the College for the curriculum concerned.

(6) The West Chester State College graduation requirements in effect at the time of admission will apply to transfer students unless they do not graduate within four years of enrollment. In such an instance, the Dean of Undergraduate Studies may make course substitutions which he deems acceptable for degree requirements.

(7) Applicants shall complete the approved transfer procedure for applying for admission.

West Chester does not allow credit for courses taken through correspondence.

Pre-Admission Policy

Not more than nine semester hours of course work may be completed at West Chester prior to formal admission to a program. A minimum cumulative grade point average of 2.00 must be earned in the pre-admission courses in order to qualify for admission to a program.

The College requires a transcript showing graduation from an approved secondary school, or equivalent preparation as approved by the Pennsylvania Department of Public Instruction.

The student must apply for admission in the Admissions Office. When accepted, an applicant is given a letter of admission. This is his authority to register. Registration shall be completed under the instruction of the Dean of Undergraduate Studies.

Acceptance of an Offer of Admission

Each applicant who accepts an offer of admission to the College must sign an acceptance form which includes the following statement: "I hereby submit myself to the jurisdiction of the College and agree to be governed by the rules and regulations of the College now existing or to be adopted during the period in which I am enrolled as a student."

Policy on Early Admissions

Under the early admissions policy, certain highly qualified students may enter West Chester as freshmen upon completing their junior year of secondary school. The policy is designed to let students with high academic achievement and unusually mature personal development undertake a college program when it is evident that they will benefit more from it than from the senior year in secondary school. In determining whether a student is ready for the college program and the college community without the senior year in secondary school, the College carefully evaluates a number of factors beyond the attainment of high grades.

ACADEMIC QUALIFICATIONS The student must rank in the upper five per cent of his class in an accredited secondary school. He must have pursued the college preparatory program and carried five major academic subjects for the ninth, tenth, and eleventh grades. His College Board Examination scores need to be a minimum of 600 and to include two elective achievement tests in addition to SAT and the English Composition test.

RECOMMENDATIONS AND INTERVIEWS Exhaustive recommendations from his faculty are essential, as are several pertinent interviews at the College.

Students whose records indicate that they might qualify for early admission are advised to write to the Director of Admissions for additional essential information. The closing date for application is June 1.

One of the Charles Willson Peale portraits of George Washington hangs in the Philips Memorial Library. Painted at nearby Valley Forge during the winter of 1777-1778, the work shows General Washington in full uniform as Commander-in-Chief of the Continental Army. He was then in his 45th year.

ACADEMIC INFORMATION

Academic Information

The academic program at West Chester is developed under a committee process which reaches deeply through the faculty. Curriculums, policies, and regulations are determined by the Academic Affairs Council with the approval of the Administration and, where necessary, the Board of Trustees. Stemming from the Council are subsidiary committees whose recommendations in specific areas serve the Council. Among these subsidiary bodies are the Academic Standards Committee, the Curriculum Development Committee, the Graduate Council, and the Teacher Education Committee.

West Chester has an advisory program under which every student works with a faculty adviser from his department. Upon enrollment, each freshman is assigned an adviser; in his following undergraduate years, the student may select the faculty member to whom he will turn for counseling and help on academic matters or problems. In their advisory capacities, faculty members maintain close relations with the staff of the Guidance and Counseling Center.

Academic Classification of Students

Students in the College are classified according to the number of semester hours of credit they have earned:

	Semester Hours of Credit
Freshmen	31 or less
Sophomores	32 - 63 (inclusive)
Juniors	64 - 95 (inclusive)
Seniors	96 or more
Special	Those not working on a degree program or so classified for other reasons.

Grading System

The College employs the following grading system:

Grade	Interpretation	Percentage Equivalents	Quality Points
A	Excellent	A = 90 - 100	4
B	Superior	B = 80 - 89	3
C	Average	C = 70 - 79	2
D	Below Average	D = 60 - 69	1
E	Failure with Re-examination Privilege		
F	Failure	F = 59 or lower	0
I	Incomplete		
WF	Withdrew Failing	F = 59 or lower	0
WP	Withdrew Passing		
W	Withdrew		

Explanation of I and E Marks: a rating of I (Incomplete) is given when there are valid reasons (such as serious illness or death in the family) for a student's failure to complete course requirements by the end of a semester. Unless the work is satisfactorily completed within the first nine weeks of the next semester the I becomes an F. An instructor may give an E (Re-examination Privilege) when he considers the margin of failure so narrow as to warrant a second try. If the student does not take the re-examination within the first nine weeks of the next semester (or fails again) the E becomes an F. The grade may never be higher than D.

Scholastic Index

The scholastic index (academic average) is determined by dividing the total quality points by the total credit hours. The following example will illustrate:

	Semester Hours	Grade	Quality Points for the Grade		Quality Points for the Course
1st subject	3	A	4	4 x 3 =	12
2nd subject	3	B	3	3 x 3 =	9
3rd subject	2	C	2	2 x 2 =	4
4th subject	3	D	1	1 x 3 =	3
5th subject	2	F	0	0 x 2 =	0
	13				28

28 ÷ 13 = Scholastic Index 2.15

All grades received during a student's enrollment are included in the over-all scholastic index. Grades from other colleges are not included.

Maintenance of Minimum Standards

In general, all students should strive to maintain a 2.00 (C) scholastic index. This is the minimum which can be considered good academic work. Students failing to maintain a 2.00 index are automatically on probation.

More specifically, students must attain the following scholastic index in order to remain in the College:

a. At the close of the freshman year 1.60

Freshmen with a scholastic index below 1.60 for their first semester may, at the discretion of the Academic Standards Committee, be required to withdraw.

b. At the close of the sophomore year 1.80

c. At the close of the junior year 2.00

A minimum scholastic index of 2.00 (C) for all work taken at the College is required for senior standing and for graduation.

Probation

Students are automatically placed on final probation if, at the end of a first semester, their scholastic index falls below the minimum for their class.

The Dean of Undergraduate Studies may restrict the number of semester hours a probationary student may carry.

Repeating Courses

A student may repeat any course for which an F or D grade is received. The repeat grade will stand as the final grade for graduation, but the original grade will not be erased from the student's permanent record.

Academic Dismissal

The recommendations of the department chairman concerned and the Dean of Women or the Dean of Men will be considered when the question of a student's dismissal for academic reasons is under study.

Any student dismissed twice for academic reasons automatically terminates his degree candidacy at West Chester. Any courses taken as a non-degree student, following a second academic dismissal, shall not be included in his grade average, nor imply the right to readmission to the College.

Notices of Academic Probation and Academic Dismissal

The Chairman of the Academic Standards Committee will send notices concerning academic probation and academic dismissal to the following: parents, faculty, Dean of Men (or) Dean of Women, Business Affairs Office, Intra-Collegiate Governmental Association, Dean of Student Affairs, Registrar, and IBM Office.

Reinstatement

The following policies apply to students who have been dismissed for academic reasons and who are eligible to seek reinstatement:

(1) Students dropped in June will be permitted to attend West Chester summer sessions, where they will have an opportunity to bring their work up to the scholastic index required for reinstatement by September 1.

(2) Resident students who are dismissed in June lose their room reservations. If they attend summer sessions and are reinstated the following September, they must re-apply for housing.

(3) In an effort to bring their grades up for reinstatement at West Chester by September 1, students may attend a summer session at another college or university. However, advance written approval of both the school and the courses to be taken is required. Students in Education must have this approval from the Dean of Undergraduate Studies; students in Liberal Arts and Sciences, from the Dean of Liberal Arts and Sciences.

(4) Students who fail to qualify for reinstatement by September 1, following attendance at summer sessions, will not be eligible to apply for readmission to the College for at least one academic semester.

In the interval, they will need to bring their work up to the required scholastic index by further study, planned in the light of the College's readmission requirements. Education students in this circumstance are advised to confer with the Dean of Undergraduate Studies. Students in Liberal Arts and Sciences should consult with their Dean.

(5) Any student dismissed for academic reasons and reinstated in the College must maintain at least a 2.00 scholastic index each subsequent semester in order to remain in the College.

Transfers and Readmission Students

Transfers and readmission students are admitted for one semester. To continue thereafter, their cumulative quality point averages for courses completed at West Chester must be 2.00 (C) or better each semester.

Upper Division Standing

Students shall apply to their department of specialization for Upper Division Standing upon completion of 64 credit hours with a general scholastic index of 1.80. Upper Division Standing is awarded upon the achievement of a 2.00 in the area of specialization and the meeting of other departmental requirements.

Upon the recommendation of his department, a student may be granted a probationary period of one semester, to enable him to achieve Upper Division Standing. Beyond 80 hours of earned credit, there can be no further probation.

Reports to Parents

As soon as possible after the close of each semester, the Registrar's Office will mail a report of each student's semester grades to his parents or guardian.

Dean's Lists

The Dean's Lists will be published at the close of each semester.

High Dean's List — scholastic index of 3.50-4.00
Dean's List — scholastic index of 3.00-3.49

Students with 96 hours of work completed at West Chester and appropriate scholastic indices may be graduated with one of four distinctions:

summa cum laude — scholastic index of 3.90
magna cum laude — scholastic index of 3.75-3.89
cum laude — scholastic index of 3.50-3.74
Dean's List for six semesters

Student Class Load

A full-time student's schedule must have a normal load. This may range from twelve to seventeen semester hours of credit.

No student is permitted to schedule more than 34 semester hours of credit in one academic year without the approval of the Dean of Undergraduate Studies.

Student Load for Veterans

The Veterans Administration requires a student to schedule at least fourteen semester hours per semester in order to receive full benefits under the G. I. Bill. (All veterans affairs are dealt with in the Registrar's Office.)

Class Attendance

Regular and punctual attendance at classes is considered essential to sound scholarship and good campus citizenship. A student handbook, given the student upon registration, contains a statement of the absence policy.

Remedial Instruction

New students with low records on the College Board English Achievement Composition Test may be required to carry a less than normal class load and to attend, without credit, remedial classes in English and/or reading.

Withdrawal from a Course

A student has the privilege of withdrawing from a course within the first four weeks of a semester. He must first consult with the Dean of Undergraduate Studies, who will record a W (Withdrawn) having no effect on the student's permanent grade record.

After the first four weeks of a semester, a withdrawal will not be approved except for special reasons and emergencies. Both the department chairman and the Dean of Undergraduate Studies must give approval. The student initiates his request for an approved withdrawal by applying to the Dean of Undergraduate Studies for a drop schedule.

If the student is doing passing work at the time of approved withdrawal, a WP (Withdrawn Passing) will merely be noted on his permanent record; it will not be treated as a grade.

On the other hand, if a WF (Withdrawn Failing) is given, the student receives an F on his permanent record.

A student who drops a course without official permission is given an F.

Withdrawal from the College

The student intending to withdraw from the College must give the Dean of Undergraduate Studies written notice, indicating why and when he plans to do so. The student who fails to comply with this requirement will be declared not a member of the College, after ten days of an unexplained absence. His last day in classes will be considered the date which terminates his connection with the College.

When, owing to illness or other reasons, a student discontinues his work at the College, he must notify the Dean of Undergraduate Studies as soon as possible.

Unless a student withdraws officially, it will be necessary to record F grades for all unfinished courses.

Classification of Students by College Program

Regular Student — all undergraduates who are admitted to a degree program in Elementary Education, Secondary Education, Health and Physical Education, Music Education, and Liberal Arts and Sciences.

Special Student — students, other than the above, who are pursuing a program which will comprise twelve or more semester hours of credit upon completion. Such program types include:

a. Degree program for Public School Nurses;
b. Degree program for Dental Hygienists;
c. Certification program for college graduates seeking teaching certificates;
d. Non-degree programs for purposes of fulfilling requirements imposed by other colleges.

Unclassified — all other students in a non-degree program.

Credit by Examination

A student in good standing may ask to take a comprehensive examination in a particular course offered by the College. The request must be filed during the first two weeks of a semester, on a form obtained from the Dean of Undergraduate Studies. Demonstration of mastery in the field is required. If credit by examination would produce an overload, the applicant must have Dean's List standing.

Once the request is approved, the student registers for the course in the usual way and, if he desires, may audit the class.

The semester hours of credit earned by examination apply toward graduation requirements.

Advanced Placement Program

Courses taken under the Advanced Placement Program offered by the College Entrance Examination Board, Princeton, New Jersey, may be applied toward advanced placement in the College and/or toward credit requirements for graduation. Application for credit must be made by July 1 to the Dean of Undergraduate Studies.

Application for advanced placement must be made by July 1 to the chairman of the department concerned. The College recognizes grades of 5 and 4 as acceptable, but not grades 3, 2, and 1.

If an application for advanced credit is approved, the student registers for the course and pays the established fee. There is no fee for an application for advanced standing without credit. Not more than fifteen credits earned under the Advanced Placement Program may be applied toward graduation requirements.

Information concerning the Advanced Placement Program may be obtained from the College Entrance Examination Board,

475 Riverside Drive, New York, New York 10027, or from high school guidance counselors.

Resident Credit Requirement

To qualify for graduation from a degree curriculum, a student must take his last thirty semester hours of credit at West Chester. Resident credits may be earned in day, evening, and Saturday classes.

Student Teaching

Student teaching is to be taken in the seventh or eighth semester and normally culminates the professional experience in pre-service preparation for teaching. Students should file applications for student teaching during the spring semester of their junior year — or one semester prior to their student-teaching semester.

To be eligible for student teaching, candidates must have senior standing (96 semester hours), a scholastic index of 2.00 (C) or higher, and must have completed all course work required in the first six semesters.

Applications for admission to student teaching are reviewed by the department or departments in which the applicant wishes to secure certification, by the Dean of Undergraduate Studies, and by the Director of Student Teaching.

Notice of Anticipation of Graduation

It is the responsibility of the student to report to the Office of the Dean of Undergraduate Studies at least three months before the date of his anticipated graduation. The student must see that his name is placed upon the list of prospective graduates, and must indicate the way he wishes his name to appear on the diploma. If he fails to do this, recognition of his graduation will be postponed until the next regular commencement.

Each student must take responsibility for seeing that he meets all the requirements for graduation outlined in the curriculum section of this catalog. These include the meeting of all general and professional education requirements, requirements in major and minor fields, and the attainment of 128 credits and a minimum scholastic index of 2.00 (C).

Graduation

A student will be recommended for graduation when all the requirements for his curriculum have been fulfilled. Diplomas will not be issued until all bills and obligations to the College have been met.

Transcripts

Applications for official transcripts should be made to the Office of the Registrar. There is no charge for the first transcript, supplied at the time of graduation.

Nor is there a charge for transcripts sent to Pennsylvania school officials in connection with applications for a position.

A charge of one dollar is made for all other requested transcripts. Checks, payable to the Commonwealth of Pennsylvania, must accompany requests.

Transcripts are considered official only when sent directly to the school or college authority who is to evaluate or record them. Consequently, transcripts sent to students are not official and do not bear the college seal. Most states and most school and college authorities accept only official transcripts. When requesting official transcripts, students will need to give the names and addresses of the officials who are to receive them.

Armed Services ROC Program

The College, with the approval of the Board of Trustees, has adopted a policy under which West Chester students enrolled in the Armed Services ROC (Reserve Officer Candidate) Programs may receive credit for six semesters hours of baccalaureate credit upon the successful completion and certification of ROC military requirements. Such credits are classified as free elective transfer credits. Depending on the status of each student's program at the time of transferring ROC credits, such credits will be counted toward or be considered in excess of the 128 credits required for the B.A. or the B.S.

ROC programs are contingent on the successful completion of military requirements during summer vacation and the earning of a college degree before being granted the service commission. The programs cover the Navy's Basic and Advanced Reserve Officer Candidate courses and the Marine Corps' Junior and Senior Platoon Leadership courses.

Provisional College Certificate

A student who satisfactorily completes one of the Teacher Education curriculums offered by the College receives his degree from the College and qualifies for a Provisional College Certificate which is issued to him by the Department of Public Instruction, Harrisburg, Pa.

In the elementary field this certificate qualifies the holder to teach in the elementary schools of Pennsylvania for three years.

In the secondary field this certificate qualifies the holder to teach the subjects written thereupon in the secondary schools of Pennsylvania for three years.

In health education and music education the certificate qualifies the holder to teach and supervise the special subject in both elementary and secondary schools of Pennsylvania for three years.

Permanent College Certificate

The Permanent College Certificate requires three years of successful teaching in the public schools of the Commonwealth of Pennsylvania under the Provisional College Certificate and the satisfactory completion of 24 semester hours of additional work of collegiate grade, completed subsequent to the issuance of the baccalaureate degree. One-half of the additional work must be professional in character and the remainder be related to the subject or subject fields on the certificate. This certificate is a permanent license to teach in Pennsylvania.

All Permanent Certificates require a basic course in the History of the United States and of Pennsylvania as well as a basic course in visual aids and sensory techniques. It is recommended that these requirements be part of the undergraduate preparation for all teachers.

When prepared for the Permanent Certificate, teachers may obtain the necessary application instructions from superintendents of schools or county superintendents of schools.

Extension of College Certificates

1. A college certificate valid for the secondary field may be extended to include the elementary field by completing 24 semester hours of approved courses in the field of elementary education, distributed as follows: a course in the teaching of reading, the

remainder selected from a minimum of four of the following areas: mathematics, arts and crafts, music, physical education, language arts, sciences, social studies, geography, mental hygiene, or a course dealing with exceptional children.

2. A college certificate valid for the elementary field may be extended to include any subject of the secondary field by completing eighteen to forty semester hours in a secondary subject, depending upon the area of specialization.

3. A college certificate valid for the secondary field may be extended to include additional academic subjects when the holder has completed 24 - 40 semester hours of approved courses in each subject to be added to the certificate.

Certification in Other States

Concerning the requirements for certification for teaching in other states, students should consult the Dean of Undergraduate Studies.

Teachers in Service

Entrance and college credits based on teaching experience have not been granted since September 1, 1927.

Credit for student teaching other than that done under the direction of the College will not be allowed.

Among the College's possessions is a collection of letters written to General Anthony Wayne during the period of the American Revolution. The correspondents include Generals George Washington, Israel Putnam, Benedict Arnold, and others. The letters, some of which are significant sources for the record of Revolutionary events, were given by General Wayne's son, Isaac, to the Chester County Athenaeum, a literary association formed in West Chester in 1827. Eventually they became the property of the West Chester Normal School.

EXPENSES AND FINANCIAL AID

Expenses

(Expenses are Subject to Change)

FEES

Basic, Curriculum, and Housing Fees

THE BASIC FEE* for all full-time students who are legal residents of Pennsylvania is $125 per semester.

For part-time Pennsylvania students (those taking eleven or less semester hours), the basic fee is $12.50 per semester hour (minimum $37.50).

A SPECIAL CURRICULUM FEE, in addition to the basic fee, is required of students enrolled in Music Education or Health and Physical Education. For full-time students, the curriculum fee in Music Education is $45 per semester; in Health and Physical Education it is $18 per semester.

Part-time students in Music Education or Health and Physical Education pay these special curriculum fees on a prorated basis.

THE HOUSING FEE for all students is $306 per semester. This covers room and meals while the College is officially in session. (Consult the College Calendar for holiday and recess schedules.)

Students who live in off-campus rooming houses and take their meals in the college dining hall are charged $9 weekly for board. They pay room rent directly to the private householders.

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*The basic fee covers registration, the keeping of student records, library services, student welfare, health service (other than special nursing and quarantine), and laboratory facilities.

It should be carefully observed that all fees and costs are subject to change without notice. Students and their parents or guardians are also reminded that, since the acceptance of a student is for a semester, financial obligations are accordingly for a semester.

At his discretion, the President may authorize payments on a monthly basis for worthy full-time students whose circumstances require a deferred payment schedule. Residence in Pennsylvania is not essential to the consideration of this arrangement. Requests for a deferred payment schedule should be sent to the Director of Business Affairs.

Out-of-State Students

THE BASIC FEE for full-time students who are not legal residents of Pennsylvania is $20 per semester hour. Thus, with the usual sixteen-credit-hour load, the basic fee for a semester is $320.

Part-time students from outside Pennsylvania are charged at the same $20-per-semester-hour rate, with $60 as their minimum basic fee.

THE SPECIAL CURRICULUM FEE for out-of-state students enrolled in Music Education or Health and Physical Education is the same as for residents of Pennsylvania (see above).

This is also true of all other fees and costs; only the basic fee differs for out-of-state students.

Application Fee

An application fee of $10 is required of all applicants. This fee is not refundable under any circumstances and is not credited to a student's account. It must be paid by cashier's check or money order (not personal check or cash).

Acceptance Fee

The student accepts an offer of admission by paying an additional $25 as a guarantee of his intention to enter the College in the semester designated. This fee is not refundable, but when a student enrolls it is credited toward his basic fee. The acceptance fee must also be paid by cashier's check or money order (not personal check or cash).

Advance Registration Fee for Returning Students

Upon notice from the Office of Business Affairs, all students other than entering students are required to pay their fees in advance, as a guarantee of their intention to return to the College. If these fees are not paid within the stipulated time limit, the student is dropped from the rolls of the College and loses all his privileges and priorities.

If, after paying the fees, the student does not enroll for the designated semester, or withdraws from the College, he forfeits a minimum of $25 if a commuting student, or $169 if a resident student. A minimum forfeit of $10 applies to part-time students.

Damage Fee

Students are held responsible for damage, breakage, loss, or delayed return of college property. Beyond that occurring from normal use, any damage to furniture, furnishings, or buildings will be charged to the student or students committing it. If a student damages college property while using an appliance not provided by the College, he will be charged a proportionate amount of the repair cost.

Private Music Instruction Fees

STUDENTS IN MUSIC EDUCATION do not pay extra fees for required private instruction in voice, piano, or band or orchestral instruments, nor are they charged for the use of pianos for practice.

However, students in Music Education pay for the following:

(1) Pipe organ for practice, one period each weekday, $36 per semester.

(2) Band or orchestral instruments, $6 rental per semester.

STUDENTS IN THE HUMANITIES CURRICULUM of the Liberal Arts and Sciences program who elect individual lessons in voice, piano, organ, or band or orchestral instruments are charged a lesson fee of $45 per semester. Pianos for practice are available at no charge.

The rates for organ practice periods and use of band or orchestral instruments are those shown above for music education students.

STUDENTS IN ELEMENTARY EDUCATION WITH A CONCENTRATION AREA IN MUSIC EDUCATION are charged at the same rates as students in the humanities curriculum, above.

ALL OTHER STUDENTS are charged a lesson fee of $24 each semester for one half-hour lesson per week, plus a $37.50 out-of-music curriculum fee for a semester. There is also a $6 per semester charge for a daily practice period at the piano. The rates for organ practice and the use of band or orchestral instruments are those shown above for music education students.

Miscellaneous Fees

A DIPLOMA FEE of $5 is required of degree candidates.

A RECORD TRANSCRIPT FEE of $1 is charged for the second and all subsequent transcripts of records. It must be paid by cashier's check or money order.

A LATE PAYMENT FEE of $5 is charged when installment payments required during the semester are not made by the fixed due date.

A TRANSIENT LODGING FEE of $1.58 (including tax) is charged for overnight guests.

AN ADDITIONAL HOUSING FEE of $2 per week is required when a single occupant is given the privilege of a double room. Such a privilege is granted only in the summer sessions.

How and When to Make Payments

The College sends bills for the housing and basic fees in advance of each semester.

For the academic year 1967 - 1968, payments will fall due as follows:

	Payment date
Fall semester	July 30, 1967
Spring semester	December 29, 1967

Checks for fees should be made payable to the "Commonwealth of Pennsylvania" and mailed to the Office of Business Affairs, West Chester State College, West Chester, Pa. 19380.

Delinquent Accounts

No student will be enrolled, graduated, or given a transcript of his record until all charges due at the particular time are paid.

Repayments

In cases of personal illness, certified by an attending physician, or for other reasons approved by the Board of Trustees, the College will refund the proportion of the housing and basic fees covering the part of the semester which the student does not spend in the College. No refund will be made for an absence of less than two weeks. Application for a refund must be made in writing to the Office of Business Affairs.

Repayments will not be made to students who are temporarily or indefinitely suspended, dismissed, or who voluntarily withdraw from the College.

Repayments of the application fee ($10) or the acceptance fee ($25) will not be made.

ADDITIONAL COSTS

Compulsory Accident Insurance

A policy costing $10 per year is compulsory for all students in Health and Physical Education and for those participating in various athletic programs.

Intra-Collegiate Governmental Association Fee

A student activity fee of $20 per semester is collected from all full-time students, and administered through a cooperative organization under regulations approved by the Board of Trustees. It covers the costs of the student activities program in such areas as athletics, various musical organizations, lectures, entertainments, and student publications. The student activities fee should be paid promptly upon receipt of the bill. Checks should be drawn to "I. G. A." and mailed to the Intra-Collegiate Governmental Association.

Part-time students may secure the benefits of the activities program, at their initiative, by paying the $20 fee at the college bookstore.

Books

Each student buys his own books and supplies. They are available at the college bookstore, at a cost of approximately $75 each semester.

Gymnasium Uniforms

MEN STUDENTS IN HEALTH AND PHYSICAL EDUCATION are required to buy athletic and gym outfits costing approximately $20 for the first semester and $25 for the third semester.

WOMEN STUDENTS IN HEALTH AND PHYSICAL EDUCATION must buy, for their first semester, uniforms costing approximately $40. Order forms will be sent to each applicant upon her acceptance by the College. An additional expenditure of $22 will be required of all sophomores.

ALL OTHER STUDENTS are required to purchase a regulation gym outfit. For the women students this includes a pair of blue shorts, a white shirt, a white sweat shirt, white socks, and canvas tennis shoes, costing altogether about $10.

For men the outfit includes a pair of white shorts, a white T-shirt, white socks, and canvas gym shoes, at an approximate total cost of $10.

Identification Cards (I. D. Cards)

On the day of registration a charge of $1 is made for student identification cards, used to admit students to college functions sponsored by the Intra-Collegiate Governmental Association, and to the college dining room. The cards carry the student's photograph and show his home address, IBM number, and class. If lost, they may be replaced at a cost of $2.50.

Council Dues

Every student pays either a Day Student or Dormitory Council assessment. For the 1966 - 1967 academic year these dues were $2.

Class Dues

Class dues constitute an obligation which every student assumes upon admission to the College and must be paid at the time of registration. Each class determines its dues. For the 1966 - 1967 academic year they were: freshmen, $1; sophomores, $10; juniors, $21.50; and seniors, $25.

Freshmen Swim Suit Rental

All freshmen pay a swim-suit rental fee of $2.

SUMMARY OF YEARLY COSTS FOR FULL-TIME PENNSYLVANIA STUDENTS

(Because they vary, class dues and the cost of required gymnasium uniforms are not included in these schedules. The student should consult Additional Costs, above.)

For All Curriculums but Music Education and Health and Physical Education

a. Students Living on Campus

Basic Fee	$250
Student Activity Fee	40
Books (approximately)	150
Room and Board	612
	$1,052

b. Day Students

Same as above, minus Room and Board .. $440

For Health and Physical Education Curriculum

a. Students Living on Campus

Basic Fee and Special Curriculum Fee	$286
Student Activity Fee	40
Books (approximately)	150
Room and Board	612
	$1,088

b. Day Students

Same as above, minus Room and Board .. $476

For Music Education Curriculum

a. Students Living on Campus

Basic Fee and Special Curriculum Fee	$340
Student Activity Fee	40
Books (approximately)	150
Room and Board	612
	$1,142

b. Day Students

Same as above, minus Room and Board .. $530

Part-time Students (Residents of Pennsylvania)

Pennsylvania part-time students may calculate a summary of their costs by developing the basic fee from the charge of $12.50 per semester hour (minimum $37.50). If they are enrolled in Music Education or Health and Physical Education, they will need to figure their special curriculum fee, explained at the beginning of this section.

Out-of-State Students

Out-of-state students may calculate a summary of their costs by developing the basic fee from the charge of $20 per semester hour (minimum $60). If they are enrolled in Music Education or Health and Physical Education, they will need to figure their special curriculum fee, explained at the beginning of this section.

EXPENSES AND FEES

UNDERGRADUATE SUMMER SESSIONS

Board and room are $17 a week. The activity fee for the Regular Session is $3.50, and for the Pre or Post Session, $1.75. The basic fee is $12.50 per semester hour of credit (minimum basic fee of $37.50 for legal residents of Pennsylvania for the Regular Session, or $18.75 for the Pre or Post Session). Out-of-state students pay at the rate of $20 per semester hour of credit (minimum basic fee of $60 for the Regular Session or $30 for the Pre or Post Session).

A special health education fee of $3 per summer course is applicable in classes, such as those in driver education, which utilize college equipment. Special music fees are applicable for students taking private instruction.

All summer school fees are due and payable on the general registration dates. The following late fees are charged:

(1) A late pre-registration fee of $5 for failure to furnish the required pre-registration form by the Wednesday preceding any summer session.

(2) A change-of-course fee of $5 for a course change made after pre-registration.

(3) A late registration fee of $5.

Financial Aid

West Chester's comprehensive program of scholarships, grants, loans, and student employment enables many students with limited funds to meet their college expenses.

The College has a strong concern for all earnest and worthy students whose pursuit of higher education hinges on financial assistance. The student whose record of academic achievement and community responsibility is satisfactory may be assured that his application for financial aid in some form will receive favorable consideration.

The College's financial aid program is administered by the Dean of Student Affairs. Full information regarding the various opportunities for assistance may be obtained from his Office, either by letter or conference. Unless otherwise specified, requests for the scholarships, grants, and loans described below are made to the Dean of Student Affairs.

Upon admission, students routinely receive instructions and forms enabling them to apply for financial aid if needed.

COLLEGE SCHOLARSHIP SERVICE West Chester participates in the College Scholarship Service (CSS) of the College Entrance Examination Board and subscribes to its principle that the amount of financial aid granted a student should be based on financial need. The CSS service is mutually helpful to colleges or universities and to parents, since its well established procedures furnish an accurate, simplified, and confidential way of determining need.

Entering students seeking assistance in the form of loans or employment are required to submit a copy of the Parents' Confidential Statement (PCS) form to the College Scholarship Service

by May 1. The PCS form may be obtained from a secondary school, the Office of the Dean of Student Affairs, or the College Scholarship Service, P. O. Box 176, Princeton, New Jersey 08540.

Scholarships

Thanks to the generosity of individuals and organizations with a concern for deserving students and a dedication to excellence in education, a considerable amount of financial aid in the form of scholarships is available at West Chester.

In some instances these scholarships are awarded by departments or committees (with the approval of the President) in recognition of outstanding accomplishment in various academic areas during the student's years at the College.

Other scholarships and grants of both private and governmental nature must be sought by the qualified student, either during his senior year of secondary school or while attending the College. Both categories are described below.

HONORARY SCHOLARSHIPS AND AWARDS

WILLIAM PYLE PHILIPS SCHOLARSHIPS Juniors and seniors who are natives of Chester County are eligible for the Philips Scholarships, awarded annually to a minimum of twenty students in recognition of scholastic ability and citizenship. The scholarships cover the students' yearly basic fees and, for recipients who are in the Music or Health and Physical Education Departments, the special curriculum fees as well.

THE THEODORE PRESSER FOUNDATION SCHOLARSHIP A scholarship of $400, made available by the Presser Foundation's Board of Trustees, is awarded each year to a junior or senior in music education. The Music Department makes the selection.

MUSIC DEPARTMENT SCHOLARSHIP OF THE GENERAL STUDENT FUND Three scholarships, each amounting to $100, are given annually to sophomores in music education. College citizenship and performance in the area of applied music are considered.

THE ARTHUR E. JONES MEMORIAL SCHOLARSHIP This scholarship is a memorial to Dr. Arthur E. Jones, a former

member of the Music Department. It is awarded on the basis of citizenship, satisfactory scholarship, and outstanding background and talent in the vocal-choral area.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT SCHOLARSHIP A fund provided by income from the Quadrennial show endows $100 scholarships, generally three in number, which are presented to second semester sophomores in health and physical education. Scholarship, need, leadership, character, and abilities in specific areas of the major field are among the criteria for selecting the recipients.

VALKYRIE CLUB SCHOLARSHIP The Valkyrie Club, composed of women students in health and physical education, presents a $100 scholarship each year to a member who is a junior. Scholarship, need, and service to the club are considered.

THE DAVID M. SENSENIG MEMORIAL SCHOLARSHIP In memory of Dr. David M. Sensenig, Chairman of the Mathematics Department at West Chester Normal School from 1895 until 1908, $50 United States savings bonds are presented annually to two juniors who have demonstrated outstanding ability in mathematics.

FRIARS MEMORIAL SCHOLARSHIP Honoring West Chester students who lost their lives in World War II, the Friars Club awards a $100 scholarship each year to a man in the Junior Class, selected by criteria which include leadership, academic achievement, need and contribution to the improvement of the College.

ALPHA SIGMA PHI SCHOLARSHIP The Alphite Society of West Chester offers an annual $100 scholarship to a student who demonstrates good citizenship, competent scholarship, and a need for financial aid.

THE SARAH H. MELLOR SCHOLARSHIP FUND OF THE CHESTER COUNTY COUNCIL OF PARENT-TEACHER ASSOCIATIONS As a memorial to the former student, teacher, and Trustee, the Council awards $100 each year to a Chester County student attending the College. The recipient is chosen on the basis of scholastic ability, character, and need.

BETHLEHEM ALUMNI CLUB SCHOLARSHIP A $200 annual scholarship is given to a senior at either Bethlehem High

School or Bethlehem Catholic High School who will enter West Chester the following year.

DELAWARE COUNTY FEDERATION OF JUNIOR WOMEN'S CLUBS SCHOLARSHIPS The Federation awards an annual scholarship to one or more women in West Chester's Junior Class. Residence in Delaware County is a requisite. The variable amount is generally more than $100.

SCHUYLKILL COUNTY ALUMNI CLUB AWARD An annual award, with need, ability, and promise determining the recipient, is made to a West Chester student residing in Schuylkill County.

YORK COUNTY ALUMNI AWARD Through its Elsie O. Bull Scholarship Fund, the alumni club annually awards a varying amount to a York County resident attending or entering West Chester. The selection is based on need, ability, and achievement.

THE SOUTHEAST DELCO LIONS' SCHOLARSHIP The members of this organization have established a scholarship for a graduate of the Yeadon, Darby-Colwyn, Collingdale, or Sharon Hill Borough high schools. In order to be eligible, students must: (1) be a commuting student; (2) have commendable sophomore standing at West Chester State College; (3) have exhibited good campus citizenship and participated in the College's extracurricular program; (4) continue their education at West Chester State College with average or better than average grades; (5) be in need of financial assistance.

The amount of the scholarship is $1,000. Three hundred and twenty-five dollars will be awarded at the beginning of the sophomore year; $325 at the beginning of the junior year; and $350 at the beginning of the senior year, provided the above requirements are met annually. The first scholarship was awarded in 1961 and the second in 1964. It is the Club's intention to award this scholarship every three years. The recipient is chosen by the Southeast Delco Lions' Club's scholarship committee and West Chester.

JAMES B. BONDER MEMORIAL SCHOLARSHIP Mrs. James B. Bonder, alumni, and friends have established a scholarship in memory of Dr. Bonder, former football coach and faculty member at the College, who died in 1965. The award will be presented annually to a deserving member of the football squad.

SCHOLARSHIPS AND GRANTS FOR WHICH STUDENTS MAY APPLY

HANNAH KENT SCHOFF MEMORIAL SCHOLARSHIPS In honor of its first president, the Pennsylvania Congress of Parents and Teachers maintains a fund which provides scholarships of $150 a year or $600 for the four years to worthy students entering the teacher education programs at any of the thirteen Pennsylvania State Colleges and at Indiana University of Pennsylvania. Outstanding students may become candidates upon the recommendation of their high schools. Application forms, available from high school guidance counselors, must be filed with the student's selected State College (or the University) before March 1.

THE SAMUEL MARTIN SCHOLARSHIP A fund established by the will of Mr. Samuel Martin makes financial assistance available to selected students of limited means who are preparing to teach. Children of Friends or students in sympathy with Friends are preferred. Students wishing to obtain the benefits of the fund are to inform Elbert N. Pusey, Esquire, 30 West Market Street, West Chester.

SICO SCHOLARSHIPS A limited number of $300 scholarships are given each year by the SICO Company of Mount Joy, Pennsylvania, to students from specified localities entering West Chester in the field of elementary education. The scholarships are granted on the basis of competitive examinations held at the College each March. Applications should be filed before then by secondary school seniors through their guidance counselors. The stipulated areas of legal residence are Chester, Berks, Cumberland, Dauphin, Lancaster, Lebanon, and York Counties in Pennsylvania, and the State of Delaware.

KIFT-MULLEN MEMORIAL SCHOLARSHIP FOR FUTURE TEACHERS This scholarship was inaugurated by the Robert L. Kift-Thomas R. Mullen, Jr. Memorial Fund, Inc., provided for by the Lehigh Structural Steel Company, Allentown, Pennsylvania. To apply for it, students must be either juniors or seniors and must be graduates of Allentown High School or Allentown Central Catholic High School. The amount of the scholarship is $200 per year.

CHARLES S. SWOPE MEMORIAL SCHOLARSHIP A scholarship fund established by the family of the College's former President, and supplemented by gifts from alumni and friends, makes aid available to deserving West Chester students preparing to teach. The College's Scholarship Committee determines recipients upon the basis of academic achievement, character, dedication to the teaching profession, and participation in extracurricular activities.

In order to qualify for the Swope Scholarship, men students must be willing to enter military service for their country under the nation's Selective Service Act.

Application forms for the scholarship may be obtained from the Office of the President.

PENNSYLVANIA STATE SCHOLARSHIPS The Scholarship Program of the Commonwealth of Pennsylvania was created by the 1965 General Assembly to aid qualified students who need financial assistance in order to attain a higher education.

All scholarship awards are based upon the academic potential of the student as determined by an examination, high-school rank in class, or admission to an institution of higher learning, and a need for financial assistance from the Commonwealth of Pennsylvania as determined by the Higher Education Assistance Agency. Financial awards range from $200 to $1,200 per academic year. High school seniors interested in applying for aid under this program should consult their guidance counselors. Interested West Chester students may obtain information about the scholarships from the Dean of Student Affairs.

PENNSYLVANIA DEPARTMENT OF PUBLIC INSTRUCTION SCHOLARSHIPS The Pennsylvania Department of Public Instruction offers a scholarship of $200 per year for four years to the high school senior earning the highest score in competitive examinations given in each county. The scholarships may be used at West Chester. Pennsylvania students wishing to take the examinations should consult with their guidance counselors.

Counseling Services for Seniors Seeking Graduate Assistantships or Fellowships

Senior students planning to take graduate work at other colleges or universities may obtain information regarding available

scholarships, fellowships, or assistantships from the Director of Guidance and Counseling, whose office serves as a clearing house for all such information. They may also consult material on file at the Library.

Conferences with their department chairmen and/or faculty advisers will also prove helpful, and are recommended.

Loans

In addition to the federal and state loan programs available to all Pennsylvania students, West Chester has three loan sources which were created out of the generosity and efforts of individuals and organizations.

All students applying for loans are required to submit the Parents' Confidential Statement form described at the beginning of this section.

NATIONAL DEFENSE STUDENT LOAN FUND The purpose of this Government Loan Program, established under the National Defense Education Act of 1958, is "to stimulate and assist in the establishment at institutions of higher education of funds for the making of low-interest loans to students *in need* thereof to pursue their courses of study in such institutions." While making these loans available to needy students in *any* field of study, the Act specifies that "in the selection of students to receive loans . . . special consideration shall be given to (a) students with a superior academic background who express a desire to teach in elementary or secondary schools, and (b) students whose academic background indicates a superior capacity or preparation in science, mathematics, engineering, or a modern foreign language." Further information concerning these loans, as well as application forms, may be secured from the Dean of Student Affairs, who is Institutional Representative for this loan fund.

PENNSYLVANIA HIGHER EDUCATION LOAN PLAN This student loan plan was created by the Act of August 7, 1963, P.L. 549. Its purpose is to improve educational opportunities for residents of Pennsylvania who are attending approved institutions of higher learning in the state or elsewhere in the United States. To be eligible for the loan, students must be legal residents of Pennsylvania and admitted to or enrolled in an approved institution of higher education in the United States.

Application forms may be obtained from participating banks in the students' communities or from the Pennsylvania Higher Education Assistance Agency, Harrisburg, Pennsylvania 17102.

WEST CHESTER STATE COLLEGE STUDENT EMERGENCY LOAN FUND Students doing satisfactory academic work and needing funds to continue in the College may obtain short-term loans up to $100 from this fund, which is a consolidation of funds once maintained by the former Student Activities Association and the B'nai B'rith Lodge. The loans must be repaid before graduation or prior to registration for the next academic year.

GENERAL STUDENT ALUMNI LOAN FUND The West Chester Alumni Association maintains a loan fund for students in financial need. They may borrow up to $100. No interest is charged, although legal security is required. Applicants must have a satisfactory academic record. The loans must be used for college expenses and must be repaid before graduation or prior to registration for the next academic year.

VIOLA MARPLE SCHOLARSHIP LOAN FUND The will of Miss Viola Marple, a former teacher in the English Department, provides scholarship loans for the education of two deserving women students whose records of ability, scholarship, and character promise competence for teaching. Recipients of the interest-free and renewable loans are selected by the English faculty and the President. Application forms may be secured from the Chairman of the English Department.

Student Employment

Many opportunities for students to work either on campus or in the community are available. Interested students should confer with the Dean of Student Affairs. The College requires all students who wish to be considered for this type of assistance to submit a Parents' Confidential Statement to the College Scholarship Service in Princeton, New Jersey. (See the paragraph headed College Scholarship Service at the beginning of this section.)

STUDENT HELP ASSISTANTS The College employs a limited number of students as helpers in the laboratories and

offices of various departments and in the library. Most of the jobs call for some special training or skill. The money is available primarily for those who could not otherwise attend college, and must be used exclusively for college expenses.

STUDENT WAITERS A number of men students are employed on an hourly basis as waiters in the dining hall. These positions, too, are primarily available for those who could not otherwise attend college, and the earnings must be used exclusively for college expenses.

PART-TIME EMPLOYMENT The Office of the Dean of Student Affairs will assist students who wish to register for such part-time or odd-job work as may come to the Office from the campus or community. While every effort is made to obtain employment for those wishing it, students should not anticipate it as a certainty. Those with training in some special field are able to earn more than those with little or none.

In the area of the lively arts, the College is proud of its jazz lab band, the nationally known Criterions, composed entirely of West Chester students. The Criterions have captured awards at numerous jazz festivals across the country.

STUDENT AFFAIRS

student living
the student community

Student Living

Administrative Classification of Students

While the majority of West Chester's undergraduates live on campus, a considerable number commute to the College. For administrative purposes, the College classifies its students as follows:

(1) Resident Students

a. College Residence Hall Students — these students live in residence halls owned and operated by the College and are required to take their meals in the dining hall.

b. Off-Campus Resident Students (College Campus Extension Students) — these students live in college extension houses. Though not owned by the College, the houses are operated and supervised in substantially the same way as the residence halls. Campus extension students are also required to take their meals in the dining hall.

(2) Day (Commuting) Students

These students live in the homes of their parents or legal guardians. If 21 or older, day students may establish legal residence in or near the Borough of West Chester. They will have to pay a per capita tax to the Borough or a township.

Day students are not required to eat in the dining hall.

The Dean of Men and the Dean of Women assign the classification of each student. They also supervise the operation of the residence halls and the extension houses. All matters pertaining to student living conditions are under their jurisdiction. Campus extension students are under the same regulations as residence hall students.

MARRIED STUDENTS The College has no housing facilities for married students. Prior to registration, they will need to secure their own accommodations. Area real estate agents should be consulted.

Dismissal from the College

Students are expected to conform to the rules and regulations of the College. Students found in violation of these rules and regulations may be suspended or dismissed, but only upon the approval of the President. Administrative officers and faculty, and student committees and councils may make recommendations to the President for suspension or dismissal in instances of violations.

Automobile Regulations

Commuting students All commuting students must have a permit to drive on the campus. The permit is issued by the campus Chief of Security and must be obtained from his station on registration day.

Resident students Resident students are not permitted to maintain or operate automobiles at the College in their freshman year. (Freshmen who are veterans of the Armed Services are the only exception.)

Resident students other than freshmen are permitted to have an automobile on the campus only if they have valid reasons for one. Before bringing their cars to the College, they must apply to the Dean of Men (for men) or the Dean of Women (for women) for official approval. If approval is granted, resident students must then obtain a permit from the campus Chief of Security.

All other students Married students and veterans of the Armed Forces, wherever they may reside, are not required to obtain approval from a dean, but — along with every West Chester student who operates a car on campus — they must obtain a permit from the campus Chief of Security.

Housing

West Chester's six residence halls offer accommodations for more than 1,800 women and 550 men.

Student rooms have basic furnishings for comfortable living, and the students may make them more homelike with their own

accessory additions. Upon enrollment, freshmen will be fully informed by the Dean of Women or Dean of Men about the services and equipment furnished by the College and those necessities which the student will need to supply for himself.

Lounge and recreation areas, storage rooms, television, and a variety of other facilities add convenience and a pleasant setting for student life.

Campus extension houses provide the same basic furnishings and many homelike facilities and conveniences.

OVERNIGHT GUESTS If accommodations are available, a resident student may have an overnight guest on Fridays or Saturdays, at a charge of $1.58 per night. Prior approval and registration must be secured from the Dean of Men (for men students) and the Dean of Women (for women students).

Dining Accommodations

Spacious dining accommodations are provided in Lawrence Hall, where all resident students take their meals. Three meals are served, cafeteria style, every day of the week. Menus are carefully planned to meet the nutritional needs of active students.

The dining-hall staff is not equipped to meet the special needs of students whose health requires medically regulated diets. These students may obtain permission to take their meals elsewhere by applying to the Dean of Student Affairs at least two weeks in advance of each semester.

College Bookstore

Along with required textbooks, the I. G. A. Bookstore carries paperback books, stationery and other student supplies, records, gymnasium uniforms, college blazers, and various gifts and souvenir items. The store is a student enterprise whose profits benefit the Intra-Collegiate Governmental Association. It is on the ground floor of Recitation Hall.

Campus Post Office

Students receive their mail at the campus post office, conveniently located on the second floor of Lawrence Hall. Combination-lock mailboxes are assigned to every fulltime student.

Lounge Facilities

In addition to the social lounges in residence halls, a large and attractively furnished lounge in Lawrence Hall serves both commuting and resident students. Here they may entertain guests, gather informally for relaxation, or enjoy music. A snack bar, near the lounge, is another popular gathering place for leisure moments.

Student Health Service

To meet emergency and first-aid needs, the professional services of two part-time physicians and four registered nurses are provided, at no cost to the students. Beyond this, the College does not furnish medical care. Qualified physicians and hospital facilities are available in the community of West Chester. All costs of medical or surgical treatment, including hospitalization, must be borne by the students, parents, or guardians.

However, a group medical and accident policy, approved by the College and covering accidents and illness on a twelve-month basis, is available at registration or from the College Health Service, at a minimal annual premium. Students and parents are urged to consider the splendid protection it offers.

Guidance and Counseling Center

The professional services of the Guidance and Counseling Center are available to students who need help with problems affecting their academic proficiency, or who have difficulties in adjusting to college life. The staff is trained and experienced in the administration of psychological tests, counseling, and personality evaluation. The program offered includes orientation for entering students.

The student who is coping with emotional difficulties, tensions, or problems of a personal nature should comfortably seek assistance at the Center. It is on the first floor of Old Main.

Placement Services

West Chester maintains an active Placement Service. The Placement Director is in general charge, and is assisted by the Undergraduate Office, the Liberal Arts and Sciences Office, the Graduate Office, heads of major curriculum areas, student teaching supervisors, and other faculty members.

The purpose of the service is to help graduating seniors and graduates obtain desirable positions related to their interests and education. It renders assistance to school officials who are seeking qualified teachers to fill vacancies in the schools of the Commonwealth. For the benefit of the Liberal Arts and Sciences graduates, communication is maintained with industry, government agencies, and the business world.

Counseling is offered to all students and graduates in career planning, opportunities, and employment trends. A library of information about career opportunities, area schools, job-training programs, Civil Service careers, job requirements, and application forms and procedures is available. At periodic intervals, group orientations for senior students are conducted.

Meetings between applicants and potential employers are arranged, and private facilities on campus are made available for interviews and conferences.

Appropriate follow-up research is conducted periodically with graduates and their employers.

Selective Service Information

The Dean of Undergraduate Studies is the College's adviser on Selective Service. Students wishing advice on this subject should apply at his office in Anderson Hall.

A student seeking deferment must complete at the beginning of each college year an *SS109* Form which will be submitted to the student's local Selective Service Board by the Dean of Undergraduate Studies. These forms can be secured from the Registrar at the time of registration.

The Student Community

Student Government

It is no wonder that students begin their undergraduate years with a sense of excitement. In a swift transformation, they are plunged into two large adventures: the pursuit of study that will shape the course of their lives, and a sudden move into a new kind of community, composed mainly of youth, focused largely toward the future, and bounded by time as well as the margins of the campus.

It is a conviction at West Chester that the two adventures are closely interwoven; that education is both an academic and a social process; and that this process is going on in every moment of the student's day. The student community is viewed, not as the housing adjunct of the College, but as an intrinsic element of the West Chester experience.

The Administration holds that students should share responsibly in governing this community and should have a voice in the shaping and re-examination of the College's objectives.

West Chester students have their own democratically constructed governmental organization for maintaining a mature and responsible student citizenry, and for developing the various activities and programs which best serve their interests and needs. Through advisory and committee machinery, the Administration, the faculty, and the student body seek to work democratically together in behalf of the general concerns of the College.

THE INTRA-COLLEGIATE GOVERNMENTAL ASSOCIATION Student government at West Chester is contained in the Intra-Collegiate Governmental Association, an organization to which all students belong. Functioning within a constitutional framework, the IGA provides students with a learning experience in the processes of democratic government.

A General Assembly, chosen by election, is the legislative body; the IGA program is administered through its officers and a student committee system. In fiscal matters, in various policy-making areas, and in disciplinary action, final authority rests with the President of the College and the Board of Trustees.

The General Assembly is composed of representatives from the Freshman, Sophomore, Junior, and Senior Classes, the Women's and Men's Residence Hall Councils, the Women's and Men's Day Student Councils, and representatives-at-large.

The large concern of the IGA is the welfare of the student body. Under the guidance of faculty advisers, the IGA maintains the college bookstore, publishes its newspaper, yearbook, and handbook, operates the college radio station, conducts ticket sales for athletic events, and plans and executes many all-campus special events and programs.

COUNCILS AND CLASS ORGANIZATIONS Other matters of student government rest with the Freshman, Sophomore, Junior, and Senior Classes, who elect their officers, and with the Women's and Men's Residence Hall Councils and the Women's and Men's Day Student Councils, which are also democratically constructed.

The Extracurricular Program At West Chester

The Dean of Student Affairs has over-all responsibility for the extracurricular program at West Chester. He works closely with the officers and committees of the IGA, the four Classes, and the leadership of the many extracurricular organizations and clubs which flourish on the campus. He has the responsibility of coordinating the total extracurricular program, of seeing that it meets the needs of students, and of fitting its various phases into the whole of college living.

The span of extracurricular activities is wide. Many organizations offer experiences related to the field of study the student is pursuing; many meet religious and fellowship needs; still others are built around special interests or hobbies. Through the offices of the Dean of Student Affairs, students are encouraged to take part in extracurricular activities. Every student is advised to participate in a club or organization for at least one semester of the year. In the interest of spreading leadership experience, no student holds more than one office a semester.

There is a strong conviction at West Chester that the extracurricular program offers the student experiences which will stand him in good stead in his later professional, business, or community life. There is also an awareness that, for every human being, there must be the place and room for his potential capacities to flourish. In the warmth of a group bent on mutual interests or concerns, new talents emerge and abilities flower.

The new student may become fully acquainted with the many clubs and organizations at West Chester through the pages of the student handbook which he receives upon enrollment. In brief, they include:

RELIGIOUS ORGANIZATIONS Opportunities for fellowship and religious experience at West Chester are offered by the Inter-Varsity Christian Fellowship, Hillel Foundation, Newman Club, Student Christian Association, and the Christian Science Association.

PROFESSIONAL ORGANIZATIONS The various departments of the College sponsor clubs and activities devoted to professional development. Among these are such groups as the Association of Childhood Education, English, French, Geography, Mathematics, Music, Philosophy, Social Sciences, and Science clubs, and activities for health and physical education students.

CLUBS CENTERED AROUND INTERESTS Photography, nature study, bowling, bridge, horseback riding, art, records, and other special interests draw students together in various clubs or groups.

ACTIVITIES CENTERING AROUND GROUP LIFE These include the many committees and special projects arising within the student-government bodies and may range from membership on a committee planning a social or public-affairs event to working on the college yearbook or newspaper.

Concerts and Lecture Programs

A notably vigorous interest in the arts and thought of the times exists at West Chester and throughout the larger community (the Borough of West Chester and the surrounding sector of Chester County) in which the College is located.

In some part, this unusual devotion to letters and the performing arts has roots in the past of Chester County, whose unusual numbers of scholars, scientists, writers, and artists, throughout the nineteenth century, led the West Chester area to be known for several golden decades as the "Athens of America."

With Philadelphia's rich cultural opportunities in easy reach and with stimulus from the singular number of other colleges in the Philadelphia orbit, attention to the arts and to scholarship is keen in Southeastern Pennsylvania, to the benefit of West Chester students.

Throughout the academic year, students have many opportunities to deepen their interest in music through concerts and recitals provided by the faculty and students of the College's Music Department. There are several annual series of programs at which students and townspeople mingle to fill the large auditorium of Philips Memorial Hall.

Notably, the All-Star Course brings to the campus some of the world's distinguished artists in the fields of music, drama, and dance. Among these have been the Detroit, Washington National, Cincinnati, and Minneapolis Symphony Orchestras, the Robert Shaw and Robert Wagner Chorales, Isaac Stern, George London, Jerome Hines, Nicolai Gedda, Phyllis Curtin, Evelyn Lear, the National Ballet, the American Ballet Theatre, Jose Greco and Company, and the Goldovsky Grand Opera Theater.

Through the William Pyle Philips Lecture Foundation, students have opportunities to attend lecture programs bringing leaders in literature, science, and world affairs to the campus. Among these have been Madame V. L. Pandit, Arnold Toynbee, Winston Churchill II, Harrison Salisbury, Daniel Schorr, Mark Van Doren, Sir Julian Huxley, Robert Frost, Dame Judith Anderson, Edward Weeks, and General Carlos P. Romulo.

Thanks to the Intra-Collegiate Governmental Association, another series of evening programs, generally eight in number, brings outstanding professional talent to West Chester.

Under the aegis of the Campus Cinema Club, a monthly motion-picture series shows foreign films and outstanding classics from film libraries.

Other programs, sponsored from time to time by various clubs or organizations, bring to the campus speakers of regional or national importance in such areas as public affairs, the sciences, literature, and other arts.

Musical Organizations

In conjunction with the regularly scheduled student and faculty recitals, the College Administration maintains the following well-developed musical organizations which contribute to the wealth of fine music on campus:

1. TWO COLLEGE BANDS: the CONCERT AND MARCHING BAND and the SECOND CONCERT BAND.

   Membership in these organizations is determined by the student's qualifications regardless of curriculum.

2. SYMPHONY ORCHESTRA.

   Membership in this organization is determined by the student's qualifications regardless of curriculum.

3. LITTLE SYMPHONY ORCHESTRA (Sinfonietta).

   The Sinfonietta is a group of approximately twenty-five selected players from the Symphony Orchestra. It specializes in performing music written for small orchestras.

4. INSTRUMENTAL ENSEMBLES AND CHAMBER MUSIC GROUPS.

   Membership in these groups is determined by the student's qualifications.

5. THE CRITERIONS.

   The College's jazz lab band, whose members are selected by audition.

6. CONCERT CHOIR.

   A mixed choir of Music Education students selected by audition. This choir of approximately forty voices meets twice a week, devoting its efforts toward acquiring a fine technique of choral singing through the preparation of an extensive repertoire for performance.

7. CHOIR.

   A mixed choir of junior and senior Music Education students. This group meets twice a week, devoting its efforts toward a wide association with choral literature. It is used as an opera chorus in Music Department productions and joins with the Concert Choir for large combined performances.

8. WOMEN'S CHORUS.

   All freshmen and sophomore women not in the Concert Choir who are enrolled in the Music Education curriculum are required to take this course, devoting their efforts primarily toward acquiring the techniques of choral singing.

9. MEN'S CHORUS.

   All freshmen and sophomore men of the Music Education curriculum who are not enrolled in the Concert Choir are required to take this course. Men from the elementary, secondary, health and physical education, and liberal arts and sciences curriculums are invited to audition for this group.

10. MIXED CHORUS.

    A mixed chorus of freshmen and sophomore Music Education students. This group meets once a week, alternating as a mixed chorus and as Men's Chorus and Women's Chorus. It combines with the Concert Choir for combined performances.

11. WOMEN'S GLEE CLUB.

    This organization provides an opportunity for non-music women students to participate in a choral group. The activities include the annual Christmas Carol program and the Women's Glee Club spring concert. Membership is by individual audition.

Little Theatre

This student theatrical producing organization, functioning in Theatre 208, provides a workshop for those who wish training in educational, technical, and performing theater. It presents plays for college affairs as well as for the West Chester community, planning a varied season of several major productions. Little Theatre has established a chapter of Alphi Psi Omega, national honorary dramatic fraternity, on the West Chester campus.

Publications

QUAD ANGLES, the student newspaper, is published by an undergraduate staff. Positions in the organization are open to any member of the student body with reporting or editing ability. A faculty member serves as adviser.

THE SERPENTINE is the college yearbook published under the direction of the Senior Class. This record of college activities is edited by a student staff with a faculty adviser.

THE RAM'S HORN is a publication of the Varsity Club produced on the occasion of each home game of the football season. The staff is made up from the undergraduate body of the College aided by a faculty adviser.

THE HANDBOOK is published each year as an aid to incoming freshmen. It is prepared by a student staff with the advice of a faculty sponsor.

Station WCSC

The radio station, WCSC, is maintained by the Intra-Governmental Collegiate Association as a service to the College. The station is on the air afternoons and evenings and brings the campus national newscasts, campus happenings, and music. Students who take part in the project gain a working experience in programming and announcing.

Men's Intercollegiate Athletic Program

Because athletic activities provide situations similar to experiences encountered in life, West Chester views athletics as an important part of the college experience — indeed, as a facet of education. West Chester's athletic program has as its underlying purpose the development of enduring educational values. The training given to those who will later be called upon to coach is also regarded as an important phase of the College's athletic program.

The program is administered by the Department of Health and Physical Education. To permit as many men as possible to take part, the Department makes available a wide variety of sports activities, including football, baseball, basketball, soccer, track, wrestling, swimming, tennis, gymnastics, golf, and cross-country.

Schedules are sought which, while in the College's class, measure up to the high athletic traditions and standing of West Chester. In summary, it is the College's policy to give its athletic program an important place in college life, with an emphasis in proportional balance to the value of the program.

West Chester is a member of the National Collegiate Athletic Association, the Middle Atlantic States Collegiate Athletic Conference, the I.C.4A., the Pennsylvania State College Athletic Conference, and a charter member of the Eastern Collegiate Athletic Conference.

Along with wide opportunities for participation, West Chester has excellent facilities and equipment, and when its forthcoming Health and Physical Education Center is completed, the College will have one of the ranking settings for training and research in the health and physical education world. All coaches are members of the faculty.

MEN'S INTRAMURAL ATHLETICS Out of awareness that an athletic program is not educationally justified if confined to intercollegiate competition, West Chester provides a variety of athletic activities which are available to all students. Such sports as touch football, swimming, soccer, tennis, basketball, roller hockey, track, soft ball, and volley ball are conducted for men.

Women's Athletics

In the interests of its women students, West Chester provides a broad variety of team, individual and dual sports activities designed for them. Through participation in the planning, organizing, and performance of these sports, leadership responsibilities are developed. All women students are eligible to take part in women's intramural and intercollegiate sports programs.

WOMEN'S INTRAMURAL ATHLETICS Intramural athletics for women are conducted by the Women's Athletic Association for the social, physical, and recreational benefit of West Chester women students. The governing council consists of the club officers and sports managers, who are elected by the students, and a faculty adviser. Hockey, volleyball, basketball, tennis, softball, table tennis, lacrosse, and badminton are among the activities available. The organization fosters good sportsmanship and increased participation, and views personal satisfaction and enjoyment as the desired outcomes of sports activity.

The WAA belongs to the National Athletic and Recreation Federation of College Women and the Pennsylvania Division of the Athletic and Recreation Federation of College Women.

WOMEN'S INTERCOLLEGIATE ATHLETIC PROGRAM The activities of the WIAP are conducted by the director of the program, the women coaches, and a student advisory council consisting of the managers of the varsity sports. The program includes a variety of team and individual sports, such as hockey, swimming, lacrosse, bowling, badminton, soft ball, gymnastics, basketball, tennis, and synchronized swimming. In accordance with the highest ideals of good sportsmanship, the activities are planned to provide opportunities for wholesome competition with college women of comparable skill. Students participating develop interest and skill in worthy leisure-time activities, further cultural understanding through contacts with students from other colleges, and gain experience in coaching procedures and techniques.

The entire women's intercollegiate program is guided by the standards and policies of the Division of Girls' and Women's Sports, a division of the American Association of Health, Physical Education, and Recreation.

Service Organizations

THE FRIARS SOCIETY is composed of sophomore, junior, and senior men, invited into the organization in recognition of character and leadership qualities. The Society's various service projects concern the good of the college community.

ALPHA SIGMA PHI (The Alphite Society) is a group of college women dedicated to service principles and to upholding the scholastic standards of the College. Membership is by invitation.

THE WEST CHESTER STATE COLLEGE JUNIOR CHAMBER OF COMMERCE opens its membership to all interested men who have completed the freshman year. Its program is intended as a training ground in community service and leadership.

ALPHA PHI OMEGA is a national men's service organization concerned with developing leadership and furthering the American heritage of freedom. Membership in West Chester's Omicron Upsilon chapter is open to all men who have completed their first semester and have a background in scouting.

Honor Societies

ALPHA PSI OMEGA Pho Mu, the West Chester chapter of this coeducational dramatic fraternity, was established in 1961. It is responsible for one major production presented each year in cooperation with the Little Theatre.

GAMMA THETA UPSILON Gamma Eta chapter of this professional geography fraternity was established at West Chester in 1963. The organization promotes professional interest in geography.

KAPPA DELTA PI The Education Department sponsors Kappa Delta Pi for the purpose of encouraging high professional standards in education. Membership is awarded by invitation to education majors with high academic standing.

MATHEMATICS HONOR SOCIETY Organized in 1962, this society is open to students who have completed eighteen semester credits in mathematics with a minimum average of 3.0.

PI GAMMA MU The Department of Social Science sponsors Pi Gamma Mu for the purpose of improving scholarship in the social sciences and to inspire social service to mankind. Social science majors with high academic accomplishments are invited into membership in their junior and senior years.

Social Events

A number of traditional social events highlight West Chester's student calendar. Students look forward to the excitement and color of Rampage Weekend (homecoming), and to such pleasant affairs as the Christmas dance, the Easter "Bunny Hop," Spring Weekend, Senior Weekend, and the various class formals.

The Alumni

West Chester has a large and active alumni association whose members demonstrate a marked devotion to the College. The association holds its yearly meeting during the annual Alumni Day, which takes place shortly before commencement and is always well attended. Branch organizations of the alumni exist in a number of communities.

The Philips Autographed Library, one of the largest collections of its kind outside the world of museums and great libraries, is housed in Philips Memorial Hall. The volumes were acquired by Dr. George Morris Philips during his tenure (1881-1920) as Principal of West Chester Normal School, and out of his deep affection for books. Most of the significant English and American authors of the late 19th and early 20th century, and many world figures of the period, are represented in the Library's 2,000 titles. Dr. Philips' assiduous correspondence with authors frequently produced autographs that are virtually small essays. George Bernard Shaw's is such a one. Oliver Wendell Holmes, Samuel Clemens, and Tolstoi are but three of the great names found in the Library.

CURRICULUMS

teacher education

liberal arts and sciences

Curriculums Offered at West Chester

West Chester State College offers programs leading to both the Bachelor of Arts and the Bachelor of Science degrees. The Bachelor of Science degree is awarded in the field of Teacher Education. Academic concentrations in Teacher Education may be undertaken in Elementary Education, in Secondary Education with specialization in any of a number of disciplines, in Health and Physical Education, and in Music Education.

The Bachelor of Arts degree may be earned in the Liberal Arts and Sciences Program by undertaking concentrations in subject fields within the humanities, the social sciences, or the natural sciences, including mathematics. It is also possible for the student to develop a pre-professional program within the structure of the appropriate area of concentration; several of these programs are interdisciplinary in nature.

A general education requirement is common to all curriculums. Although minor variations exist from one department to another, the usual curriculum is composed of courses in the humanities, social sciences, and natural sciences — mathematics. A student must consult with his department to determine his specific curriculum requirements.

The following curriculums are offered at West Chester:

I. TEACHER EDUCATION

A. Elementary Education

B. Secondary Education
   1. English
      a. Comprehensive English
      b. Speech Arts*
   2. Foreign Languages
      a. Comprehensive Foreign Language
      b. French
      c. German
      d. Greek
      e. Italian
      f. Latin
      g. Russian
      h. Spanish
   3. Geography
   4. Mathematics
   5. Sciences
      a. Biology
      b. Chemistry
      c. Comprehensive Science
      d. Earth and Space Science
      e. Physics
   6. Social Sciences
      a. Comprehensive Social Studies
      b. History

C. Health and Physical Education
   1. Degree Program
   2. Certification program in Education for Safe Living (Highway Safety and General Safety Education)
   3. A program in Recreation Leadership

D. Music Education

E. Cooperative Special Curriculums (leading to the B.S. degree) for
   1. Dental Hygienists
   2. Public School Nurses

F. Special Education Programs
   1. Degree program in Teaching the Speech and Hearing Handicapped*
   2. Non-degree Certification Programs
      a. Teaching the Mentally Retarded
      b. Teaching the Physically Handicapped
      c. Preparation of the Speech Correctionist*
      d. Teaching the Deaf and the Hard of Hearing*

II. LIBERAL ARTS AND SCIENCES

A. Humanities
   1. Literature
   2. Theater Arts
   3. Fine Arts
   4. Language — Linguistics
   5. Philosophy

B. Social Sciences
   1. History
   2. Economics
   3. Political Science
   4. Psychology
   5. Sociology — Anthropology
   6. Social, Welfare, and Personnel Work

C. Social Science — Geography

D. Natural Sciences
   1. Biology
   2. Chemistry
   3. Physics

E. Mathematics

F. Two degree programs in Music (B.A. and B.Mus.)*

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*Pending Department of Public Instruction approval.

Teacher Education

The following outline of General Requirements is a master pattern for designing more specifically the requirements appropriate to the particular major pursued.

As the student examines the Professional Education requirements and the Specialized Preparation necessary for his major, he will need to refer to this outline as one of the three basic categories governing the development of his curriculum.

GENERAL REQUIREMENTS FOR ALL TEACHER EDUCATION MAJORS

Required Courses		Semester Hours
1. SKILLS AND COMPETENCIES		12 — 18
a. English Composition	6	
b. Speech	2	
c. Foreign Languages (required only by English Department)	6	
d. Physical Education	2	
e. Health	2	
2. HUMANITIES		15
a. Literature (1 Required, 1 Elective)	6	
b. Art	3	
c. Music	3	
d. Philosophy	3	
3. SOCIAL SCIENCES		15
a. History (1 Required, 1 Elective)	6	
b. Geography	3	
c. Psychology or Sociology	3	
d. Political Science or Economics	3	
4. NATURAL SCIENCES		11
a. Science (with "Lab")	8	
b. Mathematics	3	
5. FREE ELECTIVES		3
TOTAL:		56 — 62

Note: The courses required should be mutually agreeable to the curricular areas concerned. Freedom of choice for the student to elect substitutes to meet area requirements is recommended. See departmental curricular offerings for certain general-education variations in Teacher Education programs in Health and Physical Education and in Music Education.

The Elementary Curriculum

Upon satisfactory completion of the requirements of this curriculum the student will be granted the degree of Bachelor of Science in Education by the College and will qualify for a Pennsylvania Provisional College Certificate to be issued by the Department of Public Instruction, Harrisburg, Pa. This certificate will be valid for teaching for three years in the kindergarten and grades one to six inclusive, and for grades seven and eight when they are not a part of an approved junior high school or junior-senior high school in Pennsylvania.

(The sequence of courses is subject to change for administrative reasons)

PROFESSIONAL EDUCATION FOR ELEMENTARY MAJORS

			Semester Hours
SOCIAL FOUNDATIONS			
Edu	100	School and Society	3
			3
PSYCHOLOGY			
Edu	250	Psychology of Learning and Development	3
Psy	251	Human Development (Childhood)	3
			6
CURRICULUM MATERIALS AND METHODS			
Edu	300	Audio-Visual Education	2
Edu	351	Evaluation and Measurement	2
Edu	401	Problems of Elementary Education	3
			7
STUDENT TEACHING INCLUDING PRACTICUM			
Edu	411	Student Teaching and Practicum	12
			12
		Total	28

SPECIALIZED PREPARATION FOR ELEMENTARY MAJORS

		Semester Hours
Art 202	Art for the Elementary Grades	3
Edu 309	Language Arts	6
or	*or (under advisement)*	
Edu 319	Reading in the Elementary School (3 s.h.)	
and	*and*	
Edu 317	Oral and Written Expression in the Elementary School (3 s.h.)	
Lit 350	Children's Literature	3
SpS 201	Introduction to Speech Problems	3
HEd 201	Practice and Theory in Elementary Physical Education	1
HEd 350	Health for the Elementary Grades	3
Mat 351	Teaching of Mathematics for Elementary Grades	3
Mus 251	Music for the Primary Grades	
or	*or*	
Mus 252	Music for the Intermediate Grades	3
Sci 250	Science for the Elementary Grades	3
SSc 332	Teaching Social Studies and Geography in Elementary Schools	3
	Total	31
	Electives (Areas of Concentration and Free Electives. *See below*)	13

Summary

General Requirements (See page 80)	56 s.h.
Professional Education	28 s.h.
Specialized Preparation	31 s.h.
Electives	13 s.h.
Total Semester Hours Required for Graduation	128

Areas of Concentration for Elementary Majors

Elementary Education majors must meet the state requirements in an area of concentration. This is not a minor field; it does not (except in the cases of foreign language and Special Education) add any field to the teaching certificate. The elective courses involved in an area of concentration count toward the 13 semester hours of elective credits required for graduation.

Some of the courses required by the state for each area are also required courses in Elementary Education.

ENGLISH

Required

Eng 101 English Composition I
Eng 102 English Composition II
Sph 101 Fundamentals of Public Speaking
Eng 121 General Literature I
Eng 122 General Literature II
Lit 350 Children's Literature
SpS 201 Introduction to Speech Problems

20 s.h.

Electives

2 electives in English (ThA courses do not qualify) 6 s.h.

26 s.h.

ENGLISH AND FOREIGN LANGUAGE

Required

Eng 101 English Composition I
Eng 102 English Composition II
Sph 101 Fundamentals of Public Speaking
Eng 121 General Literature I
Eng 122 General Literature II

14 s.h.

Electives

12 s.h. in a foreign language (in addition to 2 years or more of that language in high school) 12 s.h.

26 s.h.

Note: See Foreign Language Department before scheduling language courses.

MATHEMATICS

Required

Mat 101 Introduction to Mathematics I
Mat 351 Teaching of Mathematics in Elementary Schools

6 s.h.

Required Electives

Mat 102 Introduction to Mathematics II
Mat 311 Algebra for Elementary Teachers
Mat 331 Geometry for Elementary Teachers

9 s.h.

Electives

Selected, under guidance, from the following:

Mat 105 College Algebra and Trigonometry
Mat 106 Foundations of Mathematics
Mat 141 Analytic Geometry and Calculus I
Mat 142 Analytic Geometry and Calculus II
Mat 211 Linear Algebra
Mat 231 Modern Geometry I
Mat 121 Statistics
Mat 401 History of Mathematics

9 s.h.

24 s.h.

MUSIC

Prerequisite: Approval by the Music Department

Required

Mus 220 Fine Arts
Mus 251 Music for the Primary Grades
or
Mus 252 Music for the Intermediate Grades

6 s.h.

Electives

Mus 251 Music for the Primary Grades
or
Mus 252 Music for the Intermediate Grades
Mus 100 Foundations of Music
Mus 110 Theory of Music
Mus 310 History of Music II
3 s.h. in performance area (individual lessons)
1 s.h. in musical organization
Mus 331 Choral Conducting

18 s.h.

24 s.h.

NATURAL SCIENCES

Required

Bio 100 Basic Biological Science
Sci 150 Basic Physical Science
Sci 250 Science for the Elementary Grades

11 s.h.

Electives

5 courses selected under advisement from the following:

A. Biological Science

Bio 210	Field Botany
Bio 241	Field Zoology
Bio 242	Ornithology
Bio 301	Genetics
Bio 302	Ecology
Bio 341	Entomology
Bio 355	Wildlife Conservation

B. Physical Science

Sci 251	Matter and Energy
Sci 252	Earth Science
Sci 261	Physical Geology
Phy 330	General Astronomy

15 s.h.

26 s.h.

PSYCHOLOGY

Required

Psy 100	Introduction to Psychology
Edu 250	Psychology of Learning and Development
Psy 251	Human Development (Childhood)
Edu 351	Evaluation and Measurement

11 s.h.

Electives

4 courses in psychology 12 s.h.

23 s.h.

SOCIAL SCIENCES

Required

Geo 101	World Geography
His 101	History of Civilization I
His 102	History of Civilization II
His 211	History of the U. S. and Pennsylvania I
PSc 231	American Government
SSc 332	Teaching Social Studies and Geography in Elementary Grades

18 s.h.

Electives

2 courses (1 in sociology, the other in economics) 6 s.h.

24 s.h.

SPECIAL EDUCATION

Required

Art 202	Art for the Elementary Grades
Psy 100	Introduction to Psychology
Edu 250	Psychology of Learning and Development
Psy 251	Human Development (Childhood)
Edu 351	Evaluation and Measurement

14 s.h.

Elective Areas *(Choose either field)*

Teaching the Mentally Retarded

Psy 241	Psychology of Exceptional Children
Psy 243	Psychology of Mentally Retarded
SpE 348	Curriculum and Methods for Mentally Retarded
SpE 344	Problems in Special Education

or

Teaching the Physically Handicapped

Psy 241	Psychology of Exceptional Children
HEd 391	Psychology of the Physically Handicapped
SpE 349	Curriculum and Methods for the Physically Handicapped
HEd 390	Physical Disabilities of Childhood

11 s.h.

25 s.h.

Electives for Elementary Education Majors

All electives offered by the various departments are open to students majoring in Elementary Education, providing they have met the prerequisites as determined by the department involved.

TYPICAL COURSE SEQUENCE FOR ELEMENTARY EDUCATION MAJORS

FRESHMAN YEAR

			Hours	
			Clock	Semester
Eng	101	English Composition I	3	3
Eng	102	English Composition II	3	3
Sph	101	Fundamentals of Public Speaking	2	2
Art	101	Fine Arts (Art)	3	3
Mus	220	Fine Arts (Music)	3	3
Geo	101	World Geography	3	3
HEd	101	Survey of Physical Education I	2	1
HEd	150	Health	2	2
Mat	101	Introduction to College Mathematics I	3	3
Bio	100	Basic Biological Science	5	4
Sci	150	Basic Physical Science	5	4
Psy	100	Introduction to Psychology	3	3
			37	34

SOPHOMORE YEAR

Edu	100	School and Society	3	3
His	101	History of Civilization I	3	3
His	102	History of Civilization II	3	3
Lit	121	General Literature I	3	3
Lit	122	General Literature II	3	3
SpS	201	Introduction to Speech Problems	3	3
HEd	201	Practice and Theory in Elementary Physical Education	2	1
HEd	202	Dance Activities in the Elementary Program	2	1
Art	202	Art for the Elementary Grades	3	3
Mus	251	Music for the Primary Grades, or		
Mus	252	Music for the Intermediate Grades	3	3
Edu	250	Psychology of Learning and Development	3	3
		Elective	3	3
			34	32

JUNIOR YEAR

Sci	250	Science for the Elementary Grades	3	3
Edu	309	Language Arts	6	6
Edu	300	Audio-Visual Education	3	2
Lit	350	Children's Literature	3	3
HEd	350	Health for the Elementary Grades	3	3
His	211	History of the United States and Pennsylvania I	3	3
Mat	351	Teaching of Mathematics in Elementary Schools	3	3
Psy	251	Human Development (Childhood)	3	3
SSc	332	Teaching Social Studies and Geography in Elementary Schools	3	3
		Elective	3	3
		Elective	3	3
			36	35

SENIOR YEAR

Edu	351	Evaluation and Measurement	3	2
Edu	401	Problems of Elementary Education	3	3
Edu	411	Student Teaching and Direction of Student Activities, including Practicum	30	12
Phi	480	Introduction to Philosophy	3	3
PSc	231	American Government	3	3
		Electives	4	4
			46	27

Total Semester Hours Required for Graduation 128

The Secondary Curriculum

A major in Secondary Education may be earned in English, Foreign Languages, Geography, Mathematics, Science, and Social Science.

Upon satisfactory completion of the requirements of the Secondary Education curriculum, the student will be granted the degree of Bachelor of Science in Education by the College and will qualify for a Pennsylvania Provisional College Certificate. This certificate will be valid for teaching specific subjects in an approved secondary school in Pennsylvania for three years. Students are required to choose one field of specialization.

The Professional Education requirements are identical for all subject fields. Although General Requirements are primarily the same, certain logical departmental substitutions have been approved. The basic pattern for General Requirements may be noted on the outline on page 80. To determine approved substitutions for his particular field, the secondary major must consult the course requirements listed under the heading of his field.

(The sequence of courses is subject to change for administrative reasons)

Specialization for Secondary Teaching

Specialization in one of the teaching fields listed below is required for graduation in Secondary Education. For a particular field, fulfillment of the minimum semester-hour requirement shown will satisfy the teacher certification requirement in Pennsylvania.

Field	Minimum Semester Hours Required
Biology	36
Chemistry	40
Comprehensive English	42
Comprehensive Foreign Language	36
Comprehensive Science	44
Comprehensive Social Studies	48
Earth and Space Science	44
French	30
Geography	30
German	30
History	48
Latin	30
Mathematics	36
Physics	40
Russian	30
Spanish	30

In order to be certified in a second field, students must meet the state's requirements, which are generally — and never less than — 24 semester hours. In certain fields the requirements are more extensive; 40 semester hours is the maximum.

The student must initiate steps to have a second field written on his Pennsylvania Provisional College Certificate. He does so by first consulting with the Dean of Undergraduate Studies, who will guide him through the necessary procedures.

PROFESSIONAL EDUCATION FOR SECONDARY MAJORS

			Semester Hours
Edu	100	School and Society	3
Edu	250	Psychology of Learning and Development	3
Edu	300	Audio-Visual Education	2
Edu	306	Field Experience in Secondary Education	3
Edu	351	Evaluation and Measurement	2
Edu	412	Student Teaching for Secondary Majors including Practicum	12
		Methods of Teaching Academic Subject	3
		Total	28

SUMMARY

General Requirements (see page 80)	56 *or* 62
(English majors are required to take six semester hours of a Foreign Language)	
Professional Education Requirements	28
Specialized Preparation and Electives	38 — 51
Total Semester Hours Required for Graduation	128 — 135

ENGLISH

Comprehensive English

(Field requirement: 42 semester hours)

REQUIRED —

			Hours Clock	Hours Semester
		(In general, English majors have the same General Requirements as other secondary majors. In addition, they must take six semester hours of an intermediate foreign language [201-202].)		
Lit	127	General Literature II (Taken in place of Lit 122 in General Requirements)	3	3
Lit	225	English Literature I	3	3
Lit	226	English Literature II	3	3
Lit	223	American Literature I	3	3
Lit	224	American Literature II	3	3
Eng	313	Advanced Writing	3	3
Eng	314	History of the Language, including Linguistics	3	3
Eng	315	Advanced Grammar	3	3
Eng	316	Teaching of English (Credited to Professional Education)	3	3

201	Foreign Language	3	3
202	Foreign Language	3	3

ELECTIVES —

At least 14 semester hours are to be elected. Twelve of these must come from the following three groups.

Group 1 *(Choose at least one)*

Eng 317	Old English Language and Literature	3	3
Eng 318	Middle English Language and Literature	3	3
Eng 319	Linguistics — English	3	3
Lit 330	Medieval Literature in England	3	3
Lit 331	Chaucer	3	3
Lit 332	English Drama to the Renaissance	3	3
Lit 333	Shakespeare I	3	3
Lit 334	Shakespeare II	3	3
Lit 339	Tudor-Stuart Literature	3	3

Group 2 *(Choose at least one)*

Lit 321	Great Books I	3	3
Lit 322	Great Books II	3	3
Lit 329	Classical Mythology	1	1
Lit 335	Eighteenth Century Literature	3	3
Lit 336	The Romantic Movement	3	3
Lit 337	Victorian Literature	3	3
Lit 338	Modern Irish Literature	3	3
Lit 341	Novel to 1870	3	3
Lit 353*	Reading Interests of Secondary School Students	3	3

Group 3 *(Choose at least one)*

Eng 211	Mass Media in Society	3	3
Eng 212*	Principles of Newspaper Production I	2	2
Eng 213*	Principles of Newspaper Production II	2	2
Eng 214*	Principles of Yearbook Production I	2	2
Eng 215*	Principles of Yearbook Production II	2	2
Eng 216*	News Reporting	2	2
Eng 217*	Feature Writing	2	2
Eng 218*	History of Communications	3	3
Eng 321	Creative Writing	3	3
Lit 342	Contemporary Novel	3	3
Lit 343	Contemporary Poetry	3	3
Lit 345	Criticism	3	3

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* May be counted toward credit for English major field only upon approval of adviser.

Lit	346	Essay	3	3
Lit	348	Short Story	3	3
Lit	349	Bible as Literature	3	3
Lit	351	Modern Drama I	3	3
Lit	352	Modern Drama II	3	3

English Service Course

This course does not carry credit toward the basic 42 hours required for a field in English but may be used as supplemental credit.

Lit	350	Children's Literature	3	3

Theater Arts

The following courses, designed for students in Liberal Arts and Sciences, may be taken by secondary English majors as supplemental credits. Upon approval by the department adviser, these credits may be applied to the basic 42-hour field requirement.

			Hours	
			Clock	Semester
ThA	100	Theater Practice	1	1
ThA	101	Introduction to the Theater	2	2
ThA	102	Theory and Technique of Acting I	4	4
ThA	103	Theory and Technique of Acting II	4	4
ThA	104	Technical Production	3	2
ThA	201	Stage Make-up	3	2
ThA	202	Basic Television Techniques	3	2
ThA	204	Stagecraft and Management	3	3
ThA	206	Educational Theater Production	3	3
ThA	207	Creative Dramatics	3	3
ThA	301	Principles of Directing	4	3
ThA	302	Production Methods in Television	3	3
ThA	304	History and Principles of Scene Design	3	3
ThA	305	History and Principles of Costume Design	4	4
ThA	307	Theory and Practice of Stage Lighting	4	3
ThA	308	History of the Western Theater to the 16th Century	3	3
ThA	309	History of the Western Theater from 1600 to Present	3	3
ThA	310	History and Aesthetics of the Oriental Theater	3	3
ThA	401	Advanced Directing	4	4
ThA	402	Theater Techniques in Television	4	4
ThA	403	Advanced Acting	4	4
ThA	404	Advanced Scene Design	4	4

Speech Arts

These courses do not carry credit toward the basic 42 hours required for a field in English, but may be used as supplemental credits.

			Hours	
			Clock	Semester
Sph	101	Fundamentals of Public Speaking	2	2
Sph	103	Principles of Discussion	3	3
Sph	104	Oral Interpretation	3	3
Sph	105	Voice and Diction	3	3
Sph	106	Phonetics	3	3
Sph	201	Public Address	3	3
Sph	204	General Semantics	3	3
Sph	304	Advanced Oral Interpretation	3	3
Sph	402	Teaching Speech and Theater Arts in the Secondary School	3	3

Note:

Pending Department of Public Instruction approval, a B.S. in Education for secondary education majors, with Speech Arts as the area of specialization, is to be offered. Interested students are advised to consult with the Chairman of the Department of Speech and Theater. Materials outlining the program will be available in the chairman's office.

Speech Science

These courses do not carry credit toward the basic 42 hours required for a field in English, but may be used as supplemental credits.

			Hours	
			Clock	Semester
SpS	000	Remedial Speech	no credit	
SpS	201	Introduction to Speech Problems	3	3
SpS	202	Speech Pathology I	3	3
SpS	301	Introduction to Hearing Problems	3	3
SpS	302	Speech and Language Development	3	3
SpS	303	Clinical Practice	1-6	—

Note:

Pending Department of Public Instruction approval, West Chester is to offer a B.S. in Education, with Teaching the Speech and Hearing Handicapped as the major, in the area of Special Education. Interested students are advised to consult with the Chairman of the Department of Speech and Theater. Materials outlining the program will be available in the chairman's office.

TYPICAL COURSE SEQUENCE FOR MAJORS IN COMPREHENSIVE ENGLISH

		FRESHMAN YEAR	Hours Clock	Semester
Eng	101	English Composition I	3	3
Eng	102	English Composition II	3	3
Sph	101	Fundamentals of Public Speaking	2	2
Bio	100	Basic Biological Science	5	4
Sci	150	Basic Physical Science	5	4
Lit	121	General Literature I	3	3
Lit	127	General Literature II	3	3
HEd	101	Survey of Physical Education I	2	1
HEd	102	Survey of Physical Education II	2	1
Edu	100	School and Society	3	3
	201	Foreign Language	3	3
	202	Foreign Language	3	3
			37	33
		SOPHOMORE YEAR		
Geo	101	World Geography	3	3
His	101	History of Civilization I	3	3
His	212	History of United States and Pennsylvania II	3	3
Lit	225	English Literature I	3	3
Lit	226	English Literature II	3	3
Art	101	Fine Arts (Art)	3	3
HEd	150	Health	2	2
Eng	314	History of Language	3	3
Mat	101	Introduction to College Mathematics I	3	3
Psy	100	Introduction to Psychology	3	3
Eng	313	Advanced Writing	3	3
		Elective	3	3
			35	35
		JUNIOR YEAR		
Mus	220	Fine Arts (Music)	3	3
Lit	223	American Literature I	3	3
Lit	224	American Literature II	3	3
Eng	315	Advanced Grammar	3	3
Edu	250	Psychology of Learning and Development	3	3
Edu	300	Audio-Visual Education	3	2
Eng	316*	Teaching English in Secondary Schools	3	3
Edu	306	Field Experience in Secondary Education	3	3
Edu	351	Evaluation and Measurement	3	2
		Electives	9	9
			36	34

SENIOR YEAR

Phi	480	Introduction to Philosophy	3	3
PSc	231	American Government	3	3
Edu	412	Student Teaching including Practicum	30	12
		Electives	8	8
			44	26

Total Semester Hours Required for Graduation 128

* To be taken before attempting Edu 412.

FOREIGN LANGUAGES

(Field requirement: 30 semester hours)

Thirty semester hours of credit are required for a major in any one of the following languages: French, Spanish, German, Russian or Latin. A minor may be obtained in any one of these languages with 24 semester hours of credit.

COMPREHENSIVE FOREIGN LANGUAGE Certification in Comprehensive Foreign Language may be obtained by taking 24 semester hours in a first language and 12 semester hours in a second for a total of 36 semester hours.

French

(Major or Minor Field Offered)

			Hours Clock	Hours Semester
REQUIRED —				
Fre	101	Elementary French I	3	3
Fre	102	Elementary French II	3	3
Fre	201	Intermediate French I	3	3
Fre	202	Intermediate French II	3	3
ELECTIVES —				
Fre	203	Advanced Grammar and Composition	3	3
Fre	205	Survey of Literature I	3	3
Fre	206	Survey of Literature II	3	3
Fre	301	Advanced Language and Techniques	3	3
Fre	302	General Linguistics	3	3
Fre	303	French in the Elementary School	3	3
Fre	304	French Civilization	3	3
Fre	401	French Literature of the 18th Century	3	3
Fre	402	French Literature of the 19th Century	3	3
Fre	403	Contemporary French Literature	3	3
Fre	404	French Classical Drama	3	3

The Junior Year Abroad Program

Course Offerings

The following courses in French will be offered at the University of Montpellier, France, under the Junior Year Abroad Program sponsored by West Chester State College. The program is designed for prospective teachers of French in order to give them a firsthand acquaintance with French life and enable them to achieve a native command of the language. It is open to any student enrolled in a Pennsylvania college or university who has completed the equivalent of two years of college French and is able to take lectures in French. During the time the student is enrolled in the program, he is a student of West Chester State College and will receive a minimum of 30 credits for a full two semesters of college work after successful completion of the year abroad program of studies. Each course will run for two semesters and will be conducted entirely in French by French professors.

Course Title	Semester Hours Credit
Advanced Grammar and Composition Fre 361-62	6
Advanced French Conversation Fre 363-64	6
Phonetics and Translation Fre 365-66	6
Contemporary French Civilization Fre 367-68	6
Linguistic Studies Fre 369-70	6

German

(Major or Minor Field Offered)

			Hours Clock	Hours Semester
REQUIRED —				
Ger	101	Elementary German I	3	3
Ger	102	Elementary German II	3	3
Ger	201	Intermediate German I	3	3
Ger	202	Intermediate German II	3	3
ELECTIVES —				
Ger	203	Advanced Grammar and Composition	3	3
Ger	205	Survey of Literature I	3	3
Ger	206	Survey of Literature II	3	3
Ger	301	Advanced Language and Techniques	3	3
Ger	302	General Linguistics	3	3
Ger	401	The Age of Goethe	3	3
Ger	402	Contemporary German Literature	3	3
Ger	403	The German Short Story	3	3
Ger	404	Goethe	3	3
Ger	405	Scientific German	3	3
Ger	406	German Civilization	3	3

Greek

(No Major or Minor Field Offered in Greek)

ELECTIVES —

Gre	101	Beginning Greek I	3	3
Gre	102	Beginning Greek II	3	3
Gre	201	Intermediate Greek I	3	3
Gre	202	Intermediate Greek II	3	3

Italian

(No Major or Minor Field Offered in Italian)

ELECTIVES —

Ita	101	Elementary Italian I	3	3
Ita	102	Elementary Italian II	3	3
Ita	201	Intermediate Italian I	3	3
Ita	202	Intermediate Italian II	3	3

Latin

(Major or Minor Field Offered)

REQUIRED —

Lat	101	Elementary Latin I	3	3
Lat	102	Elementary Latin II	3	3
Lat	201	Cicero	3	3
Lat	202	Virgil	3	3

ELECTIVES —

Lat	301	Advanced Language and Techniques	3	3
Lat	302	The Lyric Poets	3	3
Lat	303	Latin Prose Composition	3	3
Lat	304	The Elegiac Poets	3	3
Lat	305	Reading Course	3	3
Lat	306	Roman Historians	3	3
Lat	401	Roman Drama	3	3
Lat	402	Roman Philosophy	3	3
Lat	403	Roman Satire	3	3
Lat	404	The Latin Novel	3	3
Lat	405	Medieval Latin	3	3
Lat	406	Tutorial Course	3	3

Russian

(Major or Minor Field Offered)

REQUIRED —

Rus	101	Elementary Russian I	3	3
Rus	102	Elementary Russian II	3	3
Rus	201	Intermediate Russian I	3	3
Rus	202	Intermediate Russian II	3	3

ELECTIVES —

Rus	203	Advanced Grammar and Composition	3	3
Rus	205	Advanced Readings I	3	3
Rus	206	Advanced Readings II	3	3
Rus	301	Advanced Language and Techniques	3	3
Rus	302	General Linguistics	3	3
Rus	303	Scientific Russian I	3	3
Rus	304	Scientific Russian II	3	3
Rus	401	The Russian Novel	3	3
Rus	402	The Russian Drama	3	3

Spanish

(Major or Minor Field Offered)

REQUIRED —

Spa	101	Elementary Spanish I	3	3
Spa	102	Elementary Spanish II	3	3
Spa	201	Intermediate Spanish I	3	3
Spa	202	Intermediate Spanish II	3	3

ELECTIVES —

Spa	203	Advanced Grammar and Composition	3	3
Spa	205	Survey of Literature (Golden Age)	3	3
Spa	206	Survey of Literature (since 1800)	3	3
Spa	301	Advanced Language and Techniques	3	3
Spa	302	General Linguistics	3	3
Spa	303	Spanish in the Elementary School	3	3
Spa	304	Spanish Civilization	3	3
Spa	401	Spanish-American Literature	3	3
Spa	402	Contemporary Spanish Literature	3	3
Spa	403	The Spanish "Comedia"	3	3
Spa	404	The Picaresque Novel	3	3

TYPICAL COURSE SEQUENCE FOR SECONDARY FOREIGN LANGUAGE MAJORS

		FRESHMAN YEAR	Hours Clock	Hours Semester
Eng	101	English Composition I	3	3
Eng	102	English Composition II	3	3
Mat	101	Introduction to College Mathematics	3	3
Geo	101	World Geography	3	3
Sph	101	Fundamentals of Public Speaking	2	2
Bio	100	Basic Biological Science	5	4
Sci	150	Basic Physical Science	5	4
HEd	101	Survey of Physical Education I	2	1
HEd	102	Survey of Physical Education II	2	1
Edu	100	School and Society	3	3
		Electives	6	6
			37	33

SOPHOMORE YEAR

His	101	History of Civilization I	3	3
His		History of Area of Language Specialization	3	3
Lit	121	General Literature I	3	3
Lit	122	General Literature II	3	3
Art	101	Fine Arts (Art)	3	3
Mus	220	Fine Arts (Music)	3	3
HEd	150	Health	2	2
Psy	100	Introduction to Psychology	3	3
		Electives	9	9
			32	32

JUNIOR YEAR

His	212	History of United States and Pennsylvania II	3	3
Edu	250	Psychology of Learning and Development	3	3
Edu	300	Audio-Visual Education	3	2
Edu	306	Field Experience in Secondary Education	3	3
Edu	351	Evaluation and Measurement	3	2
Lan	301*	Advanced Language and Techniques	3	3
		Electives	18	18
			36	34

SENIOR YEAR

PSc	231	American Government	3	3
Phi	480	Introduction to Philosophy	3	3
Edu	412	Student Teaching including Practicum	30	12
		Electives	11	11
			47	29
		Total Semester Hours Required for Graduation		128

* To be taken before attempting Edu 412.

GEOGRAPHY

(Field requirement: 30 semester hours)

REQUIRED —			Hours Clock	Hours Semester
Geo	101	World Geography	3	3
Geo	202	Geography of the U. S. and Canada	3	3
Geo	203	Economic Geography	3	3
Geo	205	Geomorphology	3	3
Geo	206	Introduction to Climate	3	3
Geo	211	Map Appreciation and Interpretation	3	3
Geo	311	Teaching Geography in Secondary Schools (Professional Education Requirement)	3	3

RESTRICTED ELECTIVES —

At least one course must be chosen from each of Groups 1, 2, and 3.

Group 1.		*ECONOMIC AND POLITICAL STUDIES*		
Geo	201	Conservation of Natural Resources	3	3
Geo	209	The U. S. in its Global Relations	3	3
Geo	308	Trade and Transportation	3	3
Geo	309	World Problems in Geography	3	3
Geo	313	Geography of Population	3	3
Geo	414	Urban and Regional Planning	3	3
Group 2.		*REGIONAL STUDIES*		
Geo	204	Geography of Pennsylvania	3	3
Geo	207	Geography of Europe	3	3
Geo	208	Geography of Latin America	3	3
Geo	304	Geography of Asia	3	3
Geo	305	Geography of the Far East	3	3
Geo	306	Geography of Africa	3	3
Geo	307	Geography of the Soviet Union	3	3
Geo	314	Geography of the U. S. and Pennsylvania	3	3
Geo	412	Geography of Australia and Associated Islands	3	3
Group 3.		*SPECIAL STUDIES IN GEOGRAPHY*		
Geo	210	Geographic Influence in American History	3	3
Geo	300	Physical Geography	3	3
Geo	301	Introduction to Geology	3	3
Geo	302	Climatology	3	3
Geo	303	Cartography	3	3
Geo	310	Geography Field Study Methods	3	3
Geo	415	Geography Area Field Study Courses I, II, and III	3-6-9	3-6-9
Geo	416	Geography Seminars I or II	3	3

TYPICAL COURSE SEQUENCE FOR SECONDARY GEOGRAPHY MAJORS

		FRESHMAN YEAR	Hours Clock	Hours Semester
Eng	101	English Composition I	3	3
Eng	102	English Composition II	3	3
Sph	101	Fundamentals of Public Speaking	2	2
Geo	101	World Geography	3	3
Bio	100	Basic Biological Science	5	4
Sci	150	Basic Physical Science	5	4
Mat	101	Introduction to College Mathematics I	3	3
Edu	100	School and Society	3	3
HEd	101	Survey of Physical Education I	2	1
HEd	102	Survey of Physical Education II	2	1
Art	101	Fine Arts (Art)	3	3
Geo	202	Geography of U. S. and Canada	3	3
			37	33

SOPHOMORE YEAR

Lit	121	General Literature I	3	3
Lit	122	General Literature II	3	3
His	101	History of Civilization I	3	3
His	102	History of Civilization II	3	3
Psy	100	Introduction to Psychology	3	3
Geo	203	Economic Geography	3	3
Geo	205	Geomorphology	3	3
Geo	206	Meteorology: An Introduction to Climate	3	3
Geo	211	Map Appreciation and Interpretation	3	3
HEd	150	Health	2	2
Mus	220	Fine Arts (Music)	3	3
		Elective	3	3
			35	35

JUNIOR YEAR

His	212	History of United States and Pennsylvania II	3	3
Eco	231	Principles of Economics	3	3
Geo	311	Teaching Geography in Secondary Schools	3	3
Edu	351	Evaluation and Measurement	3	2
Edu	250	Psychology of Learning and Development	3	3
Edu	300	Audio-Visual Education	3	2
Edu	306	Field Experience in Secondary Education	3	3
		Electives	12	12
			33	31

SENIOR YEAR

PSc	231	American Government	3	3
Edu	412	Student Teaching including Practicum	30	12
Phi	480	Introduction to Philosophy	3	3
		Electives	11	11
			47	29

Total Semester Hours Required for Graduation 128

MATHEMATICS

(Field requirement: 36 semester hours)

REQUIRED —			Hours Clock	Hours Semester
Mat	106	Foundations of Mathematics	3	3
Mat	141	Analytic Geometry and Calculus I	3	3
Mat	142	Analytic Geometry and Calculus II	3	3
Mat	231	Modern Geometry I	3	3
Mat	241	Analytic Geometry and Calculus III	3	3

Mat	242	Analytic Geometry and Calculus IV	3	3
Mat	343	Differential Equations	3	3
Mat	350	Teaching of Mathematics in Secondary Schools (Professional Education Requirement)	3	3
Mat	411	Modern Algebra I	3	3
Mat	421	Mathematical Statistics I	3	3
Mat	441	Advanced Calculus I	3	3

ELECTIVES —

Mat	211	Linear Algebra	3	3
Mat	232	Modern Geometry II	3	3
Mat	401	History of Mathematics	3	3
Mat	405	Special Topics in Mathematics	3	3
Mat	412	Modern Algebra II	3	3
Mat	414	Theory of Numbers	3	3
Mat	422	Mathematical Statistics II	3	3
Mat	425	Numerical Analysis	3	3
Mat	432	Topology	3	3
Mat	442	Advanced Calculus II	3	3
Mat	445	Complex Variable	3	3
Mat	490	Seminar in Mathematics	3	3

MATHEMATICS SERVICE COURSES

These courses do not carry credit toward the 36 hours required in the field of mathematics, but may be used as free electives.

Mat	101	Introduction to College Mathematics I	3	3
Mat	102	Introduction to College Mathematics II	3	3
Mat	105	College Algebra and Trigonometry	3	3
Mat	121	Statistics	3	3
Mat	311	Algebra for Elementary Teachers	3	3
Mat	331	Geometry for Elementary Teachers	3	3
Mat	351	Teaching of Mathematics in Elementary Schools	3	3
CSc	201	Basic Computer Science	3	3
CSc	301	Computer Programming	3	3

TYPICAL COURSE SEQUENCE FOR SECONDARY MATHEMATICS MAJORS

		FRESHMAN YEAR	Hours Clock	Hours Semester
Eng	101	English Composition I	3	3
Eng	102	English Composition II	3	3
Sph	101	Fundamentals of Public Speaking	2	2
Edu	100	School and Society	3	3
Geo	101	World Geography	3	3
Art	101	Fine Arts (Art)	3	3
Mus	220	Fine Arts (Music)	3	3

HEd	101	Survey of Physical Education I	2	1
HEd	102	Survey of Physical Education II	2	1
HEd	150	Health	2	2
Mat	106	Foundations of Mathematics	3	3
Mat	141	Analytic Geometry and Calculus I	3	3
Mat	142	Analytic Geometry and Calculus II	3	3
			35	33

SOPHOMORE YEAR

Lit	121	General Literature I	3	3
Lit	122	General Literature II	3	3
His	101	History of Civilization I	3	3
Psy	100	Introduction to Psychology	3	3
Phy	101	Physics I	6	4
Phy	102	Physics II	6	4
Mat	231	Modern Geometry I	3	3
Mat	241	Analytic Geometry and Calculus III	3	3
Mat	242	Analytic Geometry and Calculus IV	3	3
		Mathematics Elective	3	3
		Free Elective	3	3
			39	35

JUNIOR YEAR

His	212	History of United States and Pennsylvania II	3	3
Edu	250	Psychology of Learning and Development	3	3
Edu	300	Audio-Visual Education	3	2
Edu	306	Field Experience in Secondary Education	3	3
Edu	351	Evaluation and Measurement	3	2
Mat	343	Differential Equations	3	3
Mat	350	Teaching of Mathematics	3	3
Mat	411	Modern Algebra I	3	3
		Free Electives	12	12
			36	34

SENIOR YEAR

PSc	231	American Government	3	3
Phi	480	Introduction to Philosophy	3	3
Edu	412	Student Teaching including Practicum	30	12
Mat	421	Mathematical Statistics I	3	3
Mat	441	Advanced Calculus I	3	3
		Free Elective	2	2
			44	26

Total Semester Hours Required for Graduation 128

NATURAL SCIENCES

Biology

(Field requirement: 36 semester hours)

The specialty in biology provides opportunities for students to become acquainted with the principles of biology and their application to both the plant and animal kingdom. The program provides background for the three BSCS versions. Graduates in this specialty are ready to do graduate work in biology.

Basic Physical Science (Sci 150), Basic Biological Science (Bio 100), and Introduction to College Mathematics (Mat 101) are not required in the biology program.

			Hours	
REQUIRED —			Clock	Semester
a. Related Fields				
Che	103	General Chemistry I (In place of Bio 100)	6	4
Che	104	General Chemistry II	6	4
Che	231	Organic Chemistry I	6	4
Mat	105	Algebra and Trigonometry (In place of Mat 101)	3	3
Sci	350	Teaching of Biology in Secondary Schools (Credited to Professional Education)	5	3
b. Biology				
Bio	111	Botany I	6	4
Bio	112	Botany II	6	4
Bio	141	Zoology I	6	4
Bio	142	Zoology II	6	4
Bio	301	Genetics	5	3
Bio	302	Ecology	5	3
Bio	344	General Physiology	5	3
Bio	450	Biology Seminar	2	1
ELECTIVES —				
(Two courses from the following)				
Bio	241	Field Zoology	5	3
Bio	242	Ornithology	5	3
Bio	243	Comparative Anatomy	5	3
Bio	261	Human Anatomy	6	4
Bio	262	Human Physiology	6	4
Bio	310	Bacteriology	5	3
Bio	341	Entomology	5	3
Bio	345	Plant Physiology	5	3
Bio	346	Plant Structure	5	3
Bio	351	Embryology	5	3
Bio	402	Cytology	5	3
Bio	411	Plant Taxonomy	5	3
Bio	452	Special Problems in Biology		1 to 3

Chemistry

(Field requirement: 40 semester hours)

The specialty in chemistry is designed to acquaint students with the principles of chemistry and their application in the important divisions of chemistry and to enable students to develop competency in classical as well as instrumental laboratories.

Basic Physical Science (Sci 150), Basic Biological Science (Bio 100), and Introduction to College Mathematics (Mat 101) are not required in the chemistry program.

REQUIRED —			Hours Clock	Hours Semester
a. Related Fields				
Phy	101	Physics I	6	4
		(In place of Sci 150)		
Phy	102	Physics II	6	4
Mat	141	Analytic Geometry and Calculus I	3	3
		(In place of Mat 101)		
Mat	142	Analytic Geometry and Calculus II	3	3
Mat	241	Analytic Geometry and Calculus III	3	3
Sci	350	Teaching Science in the Secondary School	5	3
		(Credited to Professional Education)		
b. Chemistry				
Che	103	General Chemistry I	6	4
Che	104	General Chemistry II and Qualitative Analysis	6	4
Che	231	Organic Chemistry I	6	4
Che	321	Quantitative Analysis	8	4
Che	324	Instrumental Methods of Analysis	7	3
Che	341	Physical Chemistry I	6	4
ELECTIVES — (7 s.h.)				
Che	232	Organic Chemistry II	6	4
Che	342	Physical Chemistry II	6	4
Che	401	History and Literature of Chemistry		2
Che	408	Industrial Chemical Processes	5	3
Che	480	Introduction to Chemical Research		2 to 6

Comprehensive Science

(Field requirement: 44 semester hours)

The specialty in comprehensive science is designed to provide breadth of training for individuals who desire to prepare for teaching science in the junior high school.

Basic Physical Science (Sci 150), Basic Biological Science (Bio 100), and Introduction to Mathematics (Mat 101) are not required for this specialization.

REQUIRED —			Hours Clock	Semester
Bio	111	Botany I	6	4
	or			
Bio	112	Botany II (In place of Bio 100 and credited to General Requirements)	6	4
Bio	141	Zoology I	6	4
	or			
Bio	142	Zoology II	6	4
Che	103	General Chemistry I (In place of Sci 150 and credited to General Requirements)	6	4
Che	104	General Chemistry II	6	4
Phy	101	Physics I	6	4
Phy	102	Physics II	6	4
Phy	330	General Astronomy	3	3
Sci	261	Physical Geology	5	4
Sci	350	Teaching Science in Secondary Schools (Credited to Professional Education)	5	3
Mat	105	College Algebra and Trigonometry (In place of Mat 101 and credited to General Requirements)	3	3
ELECTIVES —				
Geo	205	Geomorphology	3	3
Geo	206	Meteorology	3	3

Any biology, chemistry, geology, or physics course.

Students who enroll in comprehensive science are expected to obtain sufficient background in analytical mathematics and one of the scientific disciplines to permit them to pursue graduate work.

Earth and Space Science

(Field requirement: 44 semester hours)

This specialization is designed for individuals who have an interest in teaching earth science courses. A person with this field also meets the requirements for certification in general science, qualifying him to teach science in grades 7, 8, and 9.

The program to be followed is identical to that for comprehensive science except for the electives. Electives will be selected from among the following:

			Hours Clock	Semester
Sci	262	Historical Geology	5	4
Sci	263	Mineralogy and Petrology	4	3
Sci	264	Geo-chemistry	3	3
Geo	205	Geomorphology	3	3
Geo	206	Meteorology	3	3
Geo	302	Climatology	3	3

Physics

(Field requirement: 40 semester hours)

The specialty in physics is designed to acquaint students with the important areas of physics through the intermediate level and to give them opportunities to begin advanced study in selected areas.

Basic Physical Science (Sci 150), Basic Biological Science (Bio 100), and Introduction to College Mathematics (Mat 101) are not required in the physics program.

			Hours	
REQUIRED —			Clock	Semester
a. Related Fields				
Che	103	General Chemistry I (In place of Sci 150 and credited to General Requirements)	6	4
Che	104	General Chemistry II	6	4
Mat	141	Analytic Geometry and Calculus I (In place of Mat 101 and credited to General Requirements)	3	3
Mat	142	Analytic Geometry and Calculus II	3	3
Mat	241	Analytic Geometry and Calculus III	3	3
Sci	350	Teaching Science in the Secondary School (Credited to Professional Education)	5	3
b. Physics				
Phy	101	Physics I	6	4
Phy	102	Physics II	6	4
Phy	212	Mechanics	5	4
Phy	233	Introduction to Modern Physics	5	4
Phy	421	Electricity and Magnetism	5	4
Phy	444	Physics Seminar	2	1
ELECTIVES —				
Phy	413	Analytical Dynamics	3	3
Phy	414	Heat and Thermodynamics	3	3
Phy	422	Optics	5	4
Phy	423	Electronics	5	4
Phy	432	Atomic and Nuclear Physics	5	4
Phy	440	Introduction to Research		1-3

TYPICAL COURSE SEQUENCE FOR SECONDARY SCIENCE MAJORS

			Hours	
		FRESHMAN YEAR	Clock	Semester
Eng	101	English Composition I	3	3
Eng	102	English Composition II	3	3
Sph	101	Fundamentals of Public Speaking	2	2
Edu	100	School and Society	3	3

HEd	101	Survey of Physical Education I	2	1
HEd	102	Survey of Physical Education II	2	1
Geo	101	World Geography	3	3
		Mathematics as required	3	3
Electives in Major Field				
		Biological Science, Chemistry, Physics, Earth Science		16
				35

SOPHOMORE YEAR

Lit	121	General Literature I	3	3
Lit	122	General Literature II	3	3
His	102	History of Civilization II	3	3
Psy	100	Introduction to Psychology	3	3
HEd	150	Health	2	2
Art	101	Fine Arts (Art)	3	3
		Mathematics as required	3	3
Electives in Major Field				
		Biological Science, Chemistry, Physics, Earth Science		12 to 15
				32 to 35

JUNIOR YEAR

Edu	250	Psychology of Learning and Development	3	3
Edu	306	Field Experience in Secondary Education	3	3
Edu	351	Evaluation and Measurement	3	2
Sci	350	Teaching Science in Secondary Schools	3	3
His	212	History of United States and Pennsylvania II	3	3
Mus	220	Fine Arts (Music)	3	3
Edu	300	Audio-Visual Education	3	2
Electives in Major Field				
		Biological Science, Chemistry, Physics, Earth Science		12 to 16
				31 to 35

SENIOR YEAR

PSc	231	American Government	3	3
Phi	480	Introduction to Philosophy	3	3
Edu	412	Student Teaching including Practicum	30	12
Electives in Major Field				
		Biological Science, Chemistry, Physics, Earth Science		12
				30

Total Semester Hours Required for Graduation ..... 128 to 135

SOCIAL SCIENCES

Comprehensive Social Studies

(Field requirement: 48 semester hours)

A student may qualify for the Comprehensive Social Studies Certificate by completing a minimum of 24 semester hours in history, and a minimum of 24 semester hours in the other social sciences.

REQUIRED —			Hours Clock	Hours Semester
His	101*	History of Civilization I	3	3
His	102*	History of Civilization II	3	3
His	211	History of the United States and Pennsylvania I	3	3
His	212	History of the United States and Pennsylvania II	3	3
PSc	231*	American Government	3	3
Eco	231	Principles of Economics	3	3
Soc	231	Introduction to Sociology *or*	3	3
Ant	231	Cultural Anthropology	3	3
SSc	331**	Teaching Social Studies in Secondary Schools	3	3
SSc	400	Senior Seminar	3	3

*Required in General Requirements.
**Required in Professional Education.

RESTRICTED ELECTIVES —

History: 12 semester hours with at least 3 hours from each of Groups 1, 2, and 3.

Social Sciences: 12 semester hours with at least 3 hours from economics, 3 hours from political science, 3 hours from sociology or anthropology, and 3 hours from geography.

History

(Field requirement: 48 semester hours)

A student may qualify for the History Certificate by completing a minimum of 36 semester hours in history, and a minimum of 12 semester hours in the other social sciences.

REQUIRED —			Hours Clock	Hours Semester
His	101*	History of Civilization I	3	3
His	102*	History of Civilization II	3	3
His	211	History of the United States and Pennsylvania I	3	3
His	212	History of the United States and Pennsylvania II	3	3
Eco	231	Principles of Economics	3	3

PSc	231*	American Government	3	3
SSc	331**	Teaching Social Studies in Secondary Schools	3	3
SSc	400	Senior Seminar	3	3

*Required in General Requirements.
**Required in Professional Education.

RESTRICTED ELECTIVES —

History majors select a concentration area in American History or World Cultures.

AMERICAN HISTORY CONCENTRATION:

His	313	History of Pennsylvania	3	3
Electives from Group 1			15	15
History electives: Groups 2 and 3			6	6
Elective: Social Sciences			3	3

WORLD CULTURES CONCENTRATION:

Ant	231	Cultural Anthropology	3	3
History electives:				
	Group 2		9	9
	Group 3		9	9
	Group 1		6	6

Offerings for Selection of Electives in the Social Sciences

HISTORY:

Group 1. UNITED STATES

His	313	History of Pennsylvania	3	3
His	314	Diplomatic History of the United States	3	3
His	315	Economic History of the United States	3	3
His	316	History of the American Frontier	3	3
His	317	History of American Science and Technology	3	3
His	318	Constitutional History of the United States	3	3
His	319	Social and Cultural History of the United States	3	3
His	320	History of the South	3	3

Group 2. EUROPEAN

His	219	Medieval Europe	3	3
His	220	Renaissance and Reformation	3	3
His	221	Modern Europe to 1815	3	3
His	222	Modern Europe since 1815	3	3
His	321	History of England	3	3
His	326	History of Russia	3	3

Group 3. WORLD AND REGIONAL

His	218	Ancient World	3	3
His	322	History of South Asia	3	3
His	323	History of the Middle East	3	3
His	324	History of Latin America	3	3
His	325	History of Twentieth Century World	3	3
His	327	The British Empire and Commonwealth	3	3
His	328	History of Modern Africa	3	3
His	329	History of East Asia	3	3

SOCIAL SCIENCES:

ANTHROPOLOGY

Ant	231	Introduction to Cultural Anthropology	3	3
Ant	331	Human Evolution	3	3
Ant	332	Social Organization	3	3
Ant	333	Cultural Dynamics	3	3
Ant	334	World Ethnography	3	3

ECONOMICS

Eco	332	Contemporary Economic Problems	3	3
Eco	333	Consumer Economics	3	3
Eco	334	Industrial Relations	3	3
Eco	335	Money and Banking	3	3
Eco	336	Business and Government	3	3
Eco	337	Economic Growth and Development	3	3
Eco	338	International Economics	3	3
Eco	339	Economic Statistics	3	3
Eco	340	Intermediate Economic Theory	3	3
Eco	341	Public Finance	3	3
Eco	342	Business Cycles	3	3

GEOGRAPHY

Geo	201	Conservation of Natural Resources	3	3
Geo	202	Geography of United States and Canada	3	3
Geo	203	Economic Geography	3	3
Geo	204	Geography of Pennsylvania	3	3
Geo	207	Geography of Europe	3	3
Geo	208	Geography of Latin America	3	3
Geo	209	The United States in its Global Relationships	3	3
Geo	210	Geographic Influence in American History	3	3
Geo	306	Geography of Africa	3	3
Geo	307	Geography of the U. S. S. R.	3	3
Geo	308	Trade and Transportation	3	3
Geo	309	World Problems	3	3

POLITICAL SCIENCE

PSc	201	Introduction to Political Science	3	3
PSc	331	State and Local Government	3	3
PSc	332	Comparative Government	3	3
PSc	333	International Relations	3	3

PSc	334	American Political Parties	3	3
PSc	335	American Political Ideas	3	3
PSc	336	Soviet Government and Politics	3	3
PSc	337	American Foreign Policy	3	3
PSc	338	Introduction to Political Thought	3	3
PSc	339	Elements of Public Administration	3	3
PSc	340	American Constitutional Law	3	3
PSc	341	International Law	3	3
PSc	342	Public Opinion and Propaganda	3	3
PSc	343	Municipal Government	3	3

SOCIOLOGY

Soc	332	Contemporary Social Problems	3	3
Soc	333	The Family	3	3
Soc	334	Juvenile Delinquency	3	3
Soc	335	Racial and Cultural Minorities	3	3
Soc	336	Urban Sociology	3	3
Soc	337	Sociological Theory	3	3
Soc	338	Criminology	3	3
Soc	339	Social Stratification	3	3
Soc	340	Introduction to Social Work	3	3

European Tour

Each summer the Department of Social Sciences conducts a "Cultural Adventure in Europe." Directed by a member of the Department, the tour is open to undergraduates and graduates, especially in-service teachers. Six credits in history, the social sciences, or the humanities are offered. The tour offers a cross-section of Europe, past and present, through visits to museums, galleries, and cathedrals, attendance at operas and music festivals, orientation tours of cities, and lectures and seminars. (See SSc 300 in "Course Offerings.")

TYPICAL COURSE SEQUENCE FOR SECONDARY SOCIAL SCIENCE MAJORS

		FRESHMAN YEAR	Hours Clock	Hours Semester
Eng	101	English Composition I	3	3
Eng	102	English Composition II	3	3
Sph	101	Fundamentals of Public Speaking	2	2
His	101	History of Civilization I	3	3
His	102	History of Civilization II	3	3
Bio	100	Basic Biological Science	5	4
Sci	150	Basic Physical Science	5	4
Edu	100	School and Society	3	3
Geo	101	World Geography	3	3
Mat	101	Introduction to College Mathematics	3	3
HEd	101	Survey of Physical Education I	2	1
HEd	102	Survey of Physical Education II	2	1
			37	33

		SOPHOMORE YEAR		
Lit	121	General Literature I	3	3
Lit	122	General Literature II	3	3
His	211	History of United States and Pennsylvania I	3	3
His	212	History of United States and Pennsylvania II	3	3
Art	101	Fine Arts (Art)	3	3
Mus	220	Fine Arts (Music)	3	3
Psy	100	Introduction to Psychology	3	3
HEd	150	Health	2	2
Soc	231	Introduction to Sociology	3	3
PSc	231	American Government	3	3
Eco	231	Principles of Economics	3	3
			32	32
		JUNIOR YEAR		
Edu	250	Psychology of Learning and Development	3	3
Edu	300	Audio-Visual Education	3	2
Edu	306	Field Experiences in Secondary Education	3	3
Edu	351	Evaluation and Measurement	3	2
SSc	331	Teaching Social Studies in Secondary Schools	3	3
Phi	480	Introduction to Philosophy	3	3
		Electives	18	18
			36	34
		SENIOR YEAR		
Edu	412	Student Teaching including Practicum	30	12
SSc	400	Senior Seminar	3	3
		Electives	14	14
			47	29
		Total Semester Hours Required for Graduation		128

The Health and Physical Education Curriculum

Upon satisfactory completion of the requirements of this curriculum the student will be granted the degree of Bachelor of Science in Health and Physical Education by the College and will qualify for a Pennsylvania Provisional College Certificate. The certificate will be valid for teaching Health and Physical Education in the elementary and secondary schools of Pennsylvania for three years.

All Health and Physical Education students must meet depart-

ment extracurricular requirements before they may attain senior standing.

(The sequence of courses is subject to change for administrative reasons)

PROFESSIONAL EDUCATION FOR HEALTH AND PHYSICAL EDUCATION MAJORS

			Semester Hours
Edu	100	School and Society	3
Edu	300	Audio-Visual Education	2
Edu	250	Psychology of Learning and Development	3
HEd	211	Preparation for Teaching Elementary Physical Education	1
HEd	311	Preparation for Teaching Secondary Physical Education	1
HEd	351	Human Development	3
HEd	352	Methods and Materials in Health Education	2
HEd	361	Tests, Measurements, and Statistics in Health and Physical Education	3
HEd	471	Student Teaching and Direction of Student Activities, including Practicum	12
		Total	30

SPECIALIZED PREPARATION FOR HEALTH AND PHYSICAL EDUCATION MAJORS

			Hours	
			Clock	Semester
		AREA OF FOUNDATION SCIENCES		
Che	100	Principles of Chemistry (Credited to General Requirements)	6	4
Sci	150	Basic Physical Science (Credited to General Requirements)	5	4
Bio	261	Human Anatomy	6	4
Bio	262	Human Physiology	6	4
		AREA OF PHYSICAL EDUCATION THEORY		
HEd	261	History and Philosophy of Physical Education (Credited to General Requirements)	2	2
HEd	362	Physical Education for Elementary Grades	7	3
HEd	364	Organization and Administration of Physical Education	3	2
HEd	365	Physical Activities for Atypical Children I	2	2
HEd	455	Applied Physiology	2	2
HEd	461	Physical Activities for Atypical Children II	2	2
HEd	462	Principles of Recreation	2	2
HEd	463	Principles of Coaching	2	2

AREA OF HEALTH EDUCATION

HEd 151	Personal Hygiene	3	3
	(Credited to General Requirements)		
HEd 153	Community Health	2	2
HEd 252	First Aid and Care and Prevention of Athletic Injuries	3	2
HEd 253	School Health Problems	3	2

AREA OF PHYSICAL EDUCATION ACTIVITIES

Men

HEd 111	Introduction to Formal Gymnasium Activities	3	1
	(Credited to General Requirements)		
HEd 112	Introduction to Tumbling and Vaulting	3	1
	(Credited to General Requirements)		
HEd 121	Individual Sports for Men	3	1
HEd 122	Soccer and Wrestling	3	1
HEd 131	Aquatic Fundamentals	3	1
HEd 132	Life Saving and Water Safety	3	1
HEd 212	Introduction to Heavy Apparatus	3	1
HEd 221	Football and Track and Field	3	1
HEd 222	Basketball and Baseball	3	1
HEd 241	Elementary Rhythms and Folk Dancing	3	1
HEd 242	Social and Square Dancing	3	1
HEd 322	Organization and Administration of Intramural and Interscholastic Athletics	2	1
HEd 323	Advanced Basketball, Football, Soccer, Track and Field	3	1
HEd 324	Advanced Baseball, Golf and Tennis, Gymnastics, and Wrestling	3	1

Women

HEd 111	Soccer, Speedball, and Basketball	3	1
	(Credited to General Requirements)		
HEd 112	Gymnastics and Fundamental Exercises	3	1
	(Credited to General Requirements)		
HEd 121	Lacrosse and Track and Field	3	1
HEd 122	Hockey and Volleyball	3	1
HEd 131	Aquatic Fundamentals	3	1
HEd 132	Life Saving and Water Safety	3	1
HEd 212	Advanced Gymnastics	3	1
HEd 221	Advanced Hockey, Lacrosse, Track and Field	3	1
HEd 222	Basketball and Tennis	3	1
HEd 241	Elementary Rhythms and Folk Dancing	3	1
HEd 242	Social and Square Dancing	3	1

HEd 322	Organization and Administration of Intramural and Interscholastic Athletics	2	1
HEd 323	Tennis, Softball; Basic Officiating of Hockey and Basketball	3	1
HEd 324	Badminton, Golf, and Archery	3	1
HEd 341	Modern Dance	2	1

Summary

General Requirements (See page 80)	56 s.h.
Professional Education	30 s.h.
Specialized Preparation	42 s.h.
Total Semester Hours Required for Graduation	128

TYPICAL COURSE SEQUENCE FOR HEALTH AND PHYSICAL EDUCATION MAJORS

		Hours Clock	Hours Semester
	FRESHMAN YEAR		
Eng 101	English Composition I	3	3
Eng 102	English Composition II	3	3
Psy 100	Introduction to Psychology	3	3
Art 101	Fine Arts (Art)	3	3
Mat 101	Introduction to College Mathematics I	3	3
Che 100	Principles of Chemistry	6	4
Sph 101	Fundamentals of Public Speaking	2	2
Edu 100	School and Society	3	3
HEd 111		3	1
Men	Introduction to Formal Gymnasium Activities		
Women	Soccer, Speedball and Basketball		
HEd 112		3	1
Men	Introduction to Tumbling and Vaulting		
Women	Gymnastic and Fundamental Exercises		
HEd 121		3	1
Men	Individual Sports for Men		
Women	Lacrosse, Track and Field		
HEd 122		3	1
Men	Soccer and Wrestling		
Women	Hockey and Volleyball		
HEd 131	Aquatic Fundamentals	3	1
HEd 132	Life Saving and Water Safety	3	1
HEd 151	Personal Hygiene	3	3
HEd 153	Community Health	2	2
		49	35

SOPHOMORE YEAR

His 101	History of Civilization I	3	3
His 102	History of Civilization II	3	3
Lit 121	General Literature I	3	3
Lit 122	General Literature II	3	3
Sci 150	Basic Physical Science	5	4
Bio 261	Human Anatomy	6	4
HEd 253	The School Health Program	3	2
HEd 211	Preparation for Teaching Elementary Physical Education	3	1
HEd 212		3	1
Men	Introduction to Heavy Apparatus		
Women	Advanced Gymnastics		
HEd 221		3	1
Men	Football, Track and Field		
Women	Advanced Hockey, Lacrosse, Track and Field		
HEd 222		3	1
Men	Basketball and Baseball		
Women	Basketball and Tennis		
HEd 241	Elementary Rhythms and Folk Dancing	3	1
HEd 242	Social and Square Dancing	3	1
HEd 252	First Aid and Care and Prevention of Athletic Injuries	3	2
HEd 261	History and Philosophy of Physical Education	2	2
HEd 341	Modern Dance I (Women)	2	1
		51	33

JUNIOR YEAR

Edu 250	Psychology of Learning and Development	3	3
Edu 300	Audio-Visual Education	3	2
His 212	History of United States and Pennsylvania II	3	3
Mus 220	Fine Arts (Music)	3	3
Bio 262	Human Physiology	6	4
HEd 311	Preparation for Teaching Secondary Physical Education	3	1
HEd 322	Organization and Administration of Intramural and Interscholastic Athletics	2	1
HEd 323		3	1
Men	Advanced Basketball, Football, Soccer, Track and Field		
Women	Tennis, Softball; Basic Officiating of Hockey and Basketball		
HEd 324		3	1
Men	Baseball, Golf, Tennis, Gymnastics and Wrestling		
Women	Badminton, Golf, and Archery		

HEd 351	Human Development	3	3
HEd 352	Methods and Materials in Health Education	3	2
HEd 361	Tests, Measurements, and Statistics in Health and Physical Education	3	3
HEd 362	Physical Education for Elementary Grades	7	3
HEd 364	Organization and Administration of Physical Education	3	2
HEd 365	Physical Activities for Atypical Children I	2	2
		50	34

SENIOR YEAR

PSc 231	American Government	3	3
Phi 480	Introduction to Philosophy	3	3
HEd 455	Applied Physiology	2	2
HEd 461	Physical Activities for Atypical Children II	2	2
HEd 462	Principles of Recreation	2	2
HEd 463	Principles of Coaching	2	2
HEd 471	Student Teaching and Direction of Student Activities including Practicum	30	12
	Elective (men)		
		44	26
	Total Semester Hours Required for Graduation		128

Certification Program in Education for Safe Living

(Highway Safety and General Safety Education)

The standards for certification as approved by the State Council of Education, January 9, 1948, require twelve semester hours *for the extension of a teacher's certificate to include this field.*

The following courses are offered by the College to satisfy the course requirement in this field:

		Hours	
		Clock	Semester
HEd 481	Introduction to Safety Education	3	3
HEd 482	Driver Education and Training	3	3
HEd 483	Psychology of Accident Prevention	3	3
HEd 484	Methods and Materials in Safety Education	3	3
HEd 485	Organization and Administration in Safety Education	3	3

A Program in Recreation Leadership

For students who desire to prepare as recreation leaders, the Department of Health and Physical Education provides appropriate elective courses, in addition to related courses included in the requirements for the health and physical education major.

The Department also offers a special program in camp leadership for staff members at children's summer camps. This supervised field experience is designed to aid the student's professional growth and knowledge through work with children in the informal atmosphere of the camp.

Any matriculated West Chester student is eligible to participate in the field program. If credit is to be applied toward a degree, permission of his adviser should be obtained.

Students from other colleges may register, with the permission of the course instructor. They are advised to obtain approval from their own college in order to assure that credits from the course may be applied toward degree requirements.

The available electives, as well as the special summer field experience in camping, are described below:

		Hours	
		Clock	Semester
HEd 366	Organization and Administration of Recreation	3	3
HEd 367	Arts and Crafts in Recreation	3	3
HEd 368	Music in Recreation	3	3
HEd 369	Dramatics in Recreation	3	3
HEd 370	Camping and Outing	3	3

Summer Field Experience

HEd 464 Supervised Recreation Leadership — 3 credits
(6 to 8 weeks' attendance at camp July through August)

The Music Education Curriculum

Upon satisfactory completion of requirements of this curriculum, the student will be granted the degree of Bachelor of Science in Music Education by the College and will qualify for a Pennsylvania Provisional College Certificate to be issued by the Department of Public Instruction, Harrisburg, Pa. The certificate will be valid for teaching music in the elementary and secondary schools of Pennsylvania for three years.

(The sequence of courses is subject to change for administrative reasons)

PROFESSIONAL EDUCATION FOR MUSIC EDUCATION MAJORS

			Semester Hours
Edu	100	School and Society	3
Mus	311	Secondary School Methods	2
Mus	312	Instrumental Methods	2
Mus	351	Elementary Methods (Human Development)	3
Edu	250	Psychology of Learning and Development	3
Mus	421	Student Teaching including Practicum, Direction	12
			25

SPECIALIZED PREPARATION FOR MUSIC EDUCATION MAJORS

			Semester Hours
Mus	100	Foundations of Music	3
Mus	110	Theory of Music	3
Mus	201	Theory of Music	3
Mus	202	Theory of Music	3
Mus	301	Theory of Music	3
Mus	211	Sight Singing I	3
Mus	212	Sight Singing II	2
Mus	331	Choral Conducting	2
Mus	332	Instrumental Conducting	2
		Elective (Music)	2
		Applied Music	25
			51

Summary

General Requirements (See page 80)	52 s.h.
Professional Education	25 s.h.
Specialized Preparation	51 s.h.
Total Semester Hours Required for Graduation	128

Electives for Music Education Majors

			Hours	
			Clock	Semester
Mus	320	American Music	2	2
Mus	321	Counterpoint	2	2
Mus	322	Orchestration	2	2
Mus	323	Composition	2	2

Mus	324	Choral Materials and Practices	2	2
Mus	325	Piano Methods (Class)	2	2
Mus	326	Instrumental Techniques and Materials	2	2
Mus	327	Teaching Music Appreciation in Elementary Grades (Summer only)	3	3
Mus	328	Aesthetics and Music Criticism	2	2
Mus	402	Seminar in Piano Teaching and Teaching Materials (Summer only)	3	3
Mus	410	Literature of the Musical Theater	3	3
Mus	412	Musico-Dramatic Production	2	2

Note: Pending Department of Public Instruction approval, the Music Department intends to offer two additional degree programs. These will lead to the Bachelor of Arts with a major in Music and to the Bachelor of Music. Information about both programs is available from the Music Department.

TYPICAL COURSE SEQUENCE FOR MUSIC EDUCATION MAJORS

		FRESHMAN YEAR	Hours Clock	Hours Semester
Eng	101	English Composition I	3	3
Eng	102	English Composition II	3	3
Sph	101	Fundamentals of Public Speaking	2	2
Bio	100	Basic Biological Science	5	4
HEd	150	Health	2	2
Mus	100	Foundations of Music	3	3
HEd	101	Survey of Physical Education I	2	1
Mus	220	Fine Arts (Music)	3	3
Mus	110	Theory of Music	3	3
Mus	021	Violin I (Class)	2	1
Mus	022	Violin II (Class)	2	1
Mus	061	Chorus	2	½
Mus	062	Chorus	2	½
		Piano (private lesson)	½	1
		Piano (private lesson)	½	1
		Voice (private lesson)	½	1
		Voice (private lesson)	½	1
Mus	211	Sight Singing I	3	3
Mus	071	Elementary Orchestra I		
or		*or*		
Mus	081	Elementary Band I	2	½
Mus	072	Elementary Orchestra II		
or		*or*		
Mus	082	Elementary Band II	2	½
			43	35

SOPHOMORE YEAR

Lit	121	General Literature I	3	3
Lit	122	General Literature II	3	3
His	101	History of Civilization I	3	3
His	102	History of Civilization II	3	3
Psy	100	Introduction to Psychology	3	3
Mus	201	Theory of Music	3	3
Mus	202	Theory of Music	3	3
Mus	212	Sight Singing II	2	2
Mus	331	Choral Conducting	2	2
HEd	107	Eurythmics	2	1
Mus	071	Elementary Orchestra I		
or		*or*		
Mus	081	Elementary Band I	2	½
Mus	072	Elementary Orchestra II		
or		*or*		
Mus	082	Elementary Band II	2	½
Mus	063	Chorus	2	½
Mus	064	Chorus	2	½
		Piano (private lesson)	½	1
		Piano (private lesson)	½	1
		Voice (private lesson)	½	1
		Voice (private lesson)	½	1
Mus	031	Clarinet (Class)	1	½
Mus	032	Clarinet (Class)	1	½
			—	—
			39	33

JUNIOR YEAR

Art	101	Fine Arts (Art)	3	3
Edu	100	School and Society	3	3
Mus	311	Secondary School Methods	3	2
Mus	312	Instrumental Methods	3	2
Mus	351	Elementary Methods (Human Development)	3	3
Mus	301	Theory of Music	3	3
Mus	332	Instrumental Conducting	2	2
His	212	History of the United States and Pennsylvania II	3	3
Edu	250	Psychology of Learning and Development	3	3
Mus	041	Trumpet (Class)	1	½
Mus	042	Trumpet (Class)	1	½
Mus	161	Choir	2	½
Mus	162	Choir	2	½
		Piano (private lesson)	½	1
		Piano (private lesson)	½	1
		Voice or Instrument (private lesson)	½	1
		Voice or Instrument (private lesson)	½	1
		Elective (Music)	2	2
			—	—
			36	32

SENIOR YEAR

PSc	231	American Government	3	3
Phi	480	Introduction to Philosophy	3	3
Mus	233	Acoustics	3	3
Mus	310	History of Music II	3	3
Mus	051	Percussion	1	½
		Major Musical Organization	2	½
		Major Musical Organization	2	½
		Piano, Voice, or Instrument	½	1
		Piano, Voice, or Instrument	½	1
		Elective (Class lesson)	1	½
Mus	421	Student Teaching including Practicum, Direction	32	12
			51	28

Total Semester Hours Required for Graduation 128

Cooperative Special Curriculums Offering Degrees for Dental Hygienists and Public School Nurses

West Chester State College offers two special curriculums, cooperative in nature, which enable dental hygienists and public school nurses to obtain the degree of Bachelor of Science in Education.

Degree Curriculum for Dental Hygienists

The degree of Bachelor of Science in Education will be conferred upon dental hygienists meeting the following requirements:

1. The possession of a valid license to practice dental hygiene in the Commonwealth of Pennsylvania, issued by the State Dental Council and Examining Board and by the Department of Public Instruction.

The requirement for admission to the Dental Hygiene curriculum is the satisfactory completion of an approved dental hygienist course of instruction of two years' duration. Each year must be composed of not less than 32 weeks, and each week must include not less than thirty hours of instruction. The requirement may also be met by equivalent instruction, and graduation, from a dental hygiene school approved by the State Council and Examining Board.

2. In addition, the satisfactory completion of sixty semester hours of Professional and General Requirement courses distributed as follows:

PROFESSIONAL EDUCATION —			Semester Hours
Edu	100	School and Society	3
Psy	100	Introduction to Psychology	3
Edu	300	Audio-Visual Education	2
Edu	250	Psychology of Learning and Development	3
			11

GENERAL REQUIREMENTS —

Eng	101	English Composition I	3
Eng	102	English Composition II	3
Sph	101	Fundamentals of Public Speaking	2
Lit	121	General Literature I	3
Lit	122	General Literature II	3
Art	101	Fine Arts (Art)	3
Mus	220	Fine Arts (Music)	3
Geo	101	World Geography	3
Geo	202	Geography of United States and Canada	3
His	101	History of Civilization I	3
His	102	History of Civilization II	3
PSc	231	American Government	3
Eco	231	Principles of Economics	3
His	211	History of the United States and Pennsylvania	3
Soc	231	Introduction to Sociology	3
			44

ELECTIVES —

Electives may be chosen, with the approval of the Dean of Undergraduate Studies, from any academic field or curriculum offered at the College, for a total of not less than 9 credits 9

9

Total Semester Hours Required for Graduation 64

In either the professional or required categories listed above, credit will be given for equivalent courses pursued in the two-year dental hygiene curriculum. In such instances, students must increase their electives by the number of semester hours so credited.

In those cases in which dental hygienists have had less than two years of specialized training, the credit given will be proportional. To make up the deficiency, additional General Requirement courses in the College will be necessary.

Degree Curriculum for Public Health Nurses

The degree of Bachelor of Science in Education will be conferred upon registered nurses who meet the following requirements:

The satisfactory completion of a two-year associate degree program or a three-year diploma program in an approved school of nursing, registration by the State Board of Examiners for the Registration of Nurses in Pennsylvania, and sixty semester hours of credit distributed as shown below.

COURSES RELATED TO PUBLIC NURSING —

			Semester Hours
PSN	300	Public School Nursing	2
PSN	302	Public Health Nursing I	3
PSN	303	Public Health Nursing II	3

PSN	304	Foundations of Nutrition	3
PSN	306	Prevention and Control of Communicable Diseases	3
			14

GENERAL REQUIREMENTS —

Eng	102	English Composition II	3
Sph	101	Fundamentals of Public Speaking	2
Lit	121	General Literature I	
or		*or*	
Lit	122	General Literature II	3
His	101	History of Civilization I	
or		*or*	
His	102	History of Civilization II	3
His	211	History of United States and Pennsylvania I	3
PSc	231	American Government	3
Soc	231	Introduction to Sociology	3
Bio	100	Basic Biological Science	3
Psy	100	Introduction to Psychology	3
PSN	370	Mental Hygiene	3
			29

PROFESSIONAL EDUCATION —

Edu	100	School and Society	3
Edu	250	Psychology of Learning and Development	3
Psy	251	Human Development (Childhood)	
or		*or*	
Psy	352	Adolescent Psychology	3
Edu	150	Introduction to Guidance and Counseling	3
			12

ELECTIVES —

Choose any two of these courses for a total of not less than 5 credits.

PSN	320	Problems in School Nursing	3
Phi	480	Introduction to Philosophy	3
Mus	220	Fine Arts (Music)	3
Art	101	Fine Arts (Art)	3
Mat	101	Introduction to College Mathematics	3
			5

Total Semester Hours Required for Graduation 60

Nurses with less than a three-year nurse's training preparation will be required to pursue additional courses to meet the requirements for the degree.

APPLICATION FOR ADMISSION. A registered nurse who desires to enroll in the degree curriculum for Public School Nurses may obtain application blanks and pertinent information from the Director of Admissions, West Chester State College.

Certification Programs in Special Education

Two programs in Special Education enable students to secure certification to teach classes for the mentally retarded or the physically handicapped. The course sequences included in the programs are offered as extensions of existing curriculums and permit students to graduate with dual certification, that is, their teaching certificates will be valid for teaching in the regular classroom and in special classes for either the mentally retarded or the physically handicapped.

The program at West Chester meets the state requirements of a minimum of twelve semester hours and is so planned that regular elementary students will not find it necessary to carry an overload or attend summer sessions. Courses in Special Education are offered as part of the regular summer program, but in most cases certification should be possible without summer study.

Students working toward a degree in Secondary Education will receive dual certification upon completion of the Special Education courses and basic courses in the teaching of reading for the elementary grades and the teaching of mathematics for the elementary grades. In order to acquire these additional credits, it may be necessary for secondary education students to attend summer school.

STUDENT TEACHING In both programs, not less than four weeks nor more than nine weeks of the regular student teaching is to be allocated to a Special Education station.

Special Education courses are scheduled to enable students to begin the program during the second semester of their sophomore year. Students interested in teaching retarded or physically handicapped children should indicate their interest when planning their sophomore schedule, and are advised to confer with the Director of Special Education.

Those students who are uncertain of their interest in the field may enroll in one or more of the Special Education courses on an exploratory basis, to determine the degree of their personal commitment to the field of teaching retarded or physically handicapped children. If the program is not pursued further, the courses will then serve as elective credits in other curriculums.

Students wishing to explore these programs are invited to consult with the Director of Special Education, Special Education Building.

Program for Teaching the Mentally Retarded

Prerequisite: Psy 100 Introduction to Psychology

			Semester Hours
Psy	241	Psychology of Exceptional Children	3
Psy	243	Psychology of the Mentally Retarded	3
SpE	344	Problems in Special Education	2
SpE	348	Curriculum and Methods for Mentally Retarded	3
Art	202	Art for the Elementary Grades (Required for all Elementary Education majors)	3
			14

Note: The first four courses should be taken in the order indicated.

Program for Teaching the Physically Handicapped

Prerequisite: Psy 100 Introduction to Psychology

			Semester Hours
Psy	241	Psychology of Exceptional Children	3
HEd	390	Physical Disabilities of Childhood	2
HEd	391	Psychology of the Physically Handicapped	3
SpE	349	Curriculum and Methods for Physically Handicapped	3
Art	202	Art for the Elementary Grades (Required for all Elementary Education majors)	3
			14

Note: The first four courses should be taken in the order indicated.

Note: Pending Department of Public Instruction approval, two additional certification programs and a degree program, leading to a B.S. in Education, in the area of Special Education, are to be offered. The certification programs proposed are:

1. Preparation of the Speech Correctionist
2. Teaching the Deaf and the Hard of Hearing

The field for the degree program will be Teaching the Speech and Hearing Handicapped.

Students desiring information about these programs may consult with the Chairman of the Department of Speech and Theater. Descriptive materials will be available at his office.

Liberal Arts and Sciences Curriculums

All students enrolled in the Program are required to complete 128 semester hours of credit. A general studies area of approximately half these credit hours is common to all five fields of major specialization. In general these courses are concentrated in the first six semesters.

These general studies are distributed among English composition and speech, a foreign language on the intermediate level, philosophy, literature, art, music, history, geography, psychology, and choices among the natural sciences, mathematics, anthropology, sociology, economics, and political science.

To supplement the general academic studies, students are also required to take four hours credit in health and physical education.

The Liberal Arts and Sciences Program at West Chester is designed for secondary school graduates interested in a comprehensive four-year college education. The Program has two purposes: (1) to equip students with the broad culture necessary for effective life in contemporary society; (2) to provide varied educational experiences by which students may develop individual interests and abilities.

Five basic curriculum sequences — humanities, mathematics, natural sciences, social sciences, and geography — aim to provide students with some idea of man's intellectual and creative progress, appreciation of his social environment, and understanding of scientific principles and their methods of investigation. The Liberal Arts is in essence the consideration of the record of the inquiring mind.

The first two years of the Program are in part devoted to a core of general studies. This gives students occasion to explore numerous areas of learning before they select a final field of concentration. The arrangement will aid many high school graduates who are undecided as to choice of careers and who need opportunity for such exploration.

The Program will also satisfy those with more definite career objectives. Any of the curriculums are appropriate for those entering commerce and industry. The Program is sufficiently flexible to provide the preparation required for graduate study in the professions of law, medicine, the church government, college teaching, and others.

GENERAL REQUIREMENTS

Required Courses	Semester Hours
1. Skills and competencies	18
a. English Composition	6
b. Speech	2
c. Foreign Languages	6
d. Physical Education (2 activity courses)	2
e. Health	2
2. Humanities	15
a. Literature (1 Required, 1 Elective)	6
b. Art	3
c. Music	3
d. Philosophy	3
3. Social Sciences	15
a. History (1 Required, 1 Elective)	6
b. Geography	3
c. Psychology or Sociology	3
d. Political Science or Economics	3
4. Natural Sciences	11
a. Science (with "Lab")	8
b. Mathematics	3
5. Free Electives	3
TOTAL	62

NOTE: The courses required for meeting the general education requirements should be mutually agreeable to the curricular areas concerned. Freedom of choice for the student to elect substitutes to meet area requirements is recommended.

After completion of the general requirements, the student elects one of five broad fields of concentration as outlined on the pages below.

Major Curriculum Areas

HUMANITIES

The humanities sequence is based upon a required core of courses concerned with: philosophy or great books, history and literature of the drama and theater, music history and literature, and art history.

In addition, five elective areas of concentration are available as follows:

A. Art (history and appreciation of the arts, studio art).

B. Language — Linguistics (elected foreign languages, and courses in language history, usage, and techniques).

C. Literature (English, American, or general).

D. Philosophy (history of philosophy, logic, ethics, aesthetics; contemporary applications to history, religion, and science).

E. Theater Arts (history, music, drama, dance, and dramatic productions).

Curriculum in Humanities

Required Courses	Semester Hours
1. General Studies Area	62
2. Arts and Letters Core	18
a. Philosophy (Lit 349, 321, 322; Phi 481, 482, 486, 372, 374, 491)	3
b. History and Literature of Drama and Theater (Lit 332, 333, 334, 351, 352; ThA 308, 309, 310)	3
c. Music History and Literature (Mus 250, 310, 320, 410, 412)	3

d. Art History 3
(Art 404, 405, 406, 407, 408)
e. Arts and Letters Electives 6
(Chosen from a.-d.)

3. Elective Areas of Specialization as Advised 39
a. Art
b. Language — Linguistics
c. Literature
d. Philosophy
e. Theater Arts — Speech Arts

4. Free Electives as Advised 9
a. Second language or second year of language strongly recommended.
b. Special interdepartmental courses devoted to literary and artistic contributions of great cultural epochs plus courses in criticism, history, psychology, and comparative philosophy, religion, and ethics.

TOTAL 128

Offerings for Concentration Areas in Humanities

A. FINE ARTS

1. Art

Art 201 Arts and Crafts
Art 301 Painting I (Oil)
Art 302 Painting II (Watercolor)
Art 310 Sculpture I
Art 311 Sculpture II
Art 320 Drawing
Art 330 Ceramics
Art 340 Graphics
Art 401 History of Aesthetics
Art 404 History of Western Art I
Art 405 History of Western Art II
Art 406 History of Western Art III
Art 407 History of Non-Western Art
Art 408 Art of the United States

2. Music

Mus 250 History of Music I
Mus 310 History of Music II
Mus 100 Foundations of Music
Mus 110 Theory of Music
Mus 201 Theory of Music
Mus 301 Theory of Music
Mus 320 American Music
Applied Music:
Voice
Instrument
Ensemble

3. Aesthetics and Criticism

(See E.6)

B. LANGUAGE — LINGUISTICS

1. Languages

a. French

Fre 101	Elementary French I
Fre 102	Elementary French II
Fre 201	Intermediate French I
Fre 202	Intermediate French II
Fre 203	Advanced Grammar and Composition
Fre 205	Survey of Literature I
Fre 206	Survey of Literature II
Fre 304	French Civilization
Fre 401	French Literature of the 18th Century
Fre 402	French Literature of the 19th Century
Fre 403	Contemporary French Literature
Fre 404	French Classical Drama

b. German

Ger 101	Elementary German I
Ger 102	Elementary German II
Ger 201	Intermediate German I
Ger 202	Intermediate German II
Ger 203	Advanced Grammar and Composition
Ger 205	Survey of Literature I
Ger 206	Survey of Literature II
Ger 401	Age of Goethe
Ger 402	Contemporary German Literature
Ger 403	German Short Story
Ger 404	Goethe
Ger 405	Scientific German
Ger 406	German Civilization

c. Greek

Gre 101	Elementary Greek I
Gre 102	Elementary Greek II
Gre 201	Intermediate Greek I
Gre 202	Intermediate Greek II

d. Italian

Ita 101	Elementary Italian I
Ita 102	Elementary Italian II
Ita 201	Intermediate Italian I
Ita 202	Intermediate Italian II

e. Latin

Lat 101	Elementary Latin I
Lat 102	Elementary Latin II
Lat 201	Cicero
Lat 202	Virgil
Lat 302	Lyric Poets
Lat 303	Latin Prose Composition
Lat 304	Elegiac Poets
Lat 305	Reading Course
Lat 306	Roman Historians
Lat 401	Roman Drama
Lat 402	Roman Philosophy
Lat 403	Roman Satire
Lat 404	Latin Novel
Lat 405	Medieval Latin
Lat 406	Tutorial Course

f. Russian

Rus 101	Elementary Russian I
Rus 102	Elementary Russian II
Rus 201	Intermediate Russian I
Rus 202	Intermediate Russian II
Rus 203	Advanced Grammar and Composition
Rus 205	Advanced Readings in Russian I
Rus 206	Advanced Readings in Russian II
Rus 303	Scientific Russian I
Rus 304	Scientific Russian II
Rus 401	Russian Novel
Rus 402	Russian Drama

g. Spanish

Spa 101	Elementary Spanish I
Spa 102	Elementary Spanish II
Spa 201	Intermediate Spanish I
Spa 202	Intermediate Spanish II
Spa 203	Advanced Grammar and Composition
Spa 205	Survey of Literature (Golden Age)
Spa 206	Survey of Literature (Since 1800)
Spa 304	Spanish Civilization
Spa 401	Spanish-American Literature
Spa 402	Contemporary Spanish Literature
Spa 403	Spanish "Comedia"
Spa 404	Picaresque Novel

2. Linguistics

Eng 314	History of Language
Eng 315	Advanced Grammar
Spa 302	General Linguistics
Ger 302	General Linguistics
Fre 302	General Linguistics
Rus 302	General Linguistics

C. LITERATURE*

Lit 223	American Literature I
Lit 224	American Literature II
Lit 225	English Literature I
Lit 226	English Literature II
Lit 330	Medieval Literature in England
Lit 331	Chaucer
Lit 339	Tudor-Stuart Literature
Lit 335	Eighteenth Century Literature
Lit 336	Romantic Movement
Lit 337	Victorian Literature
Lit 338	Modern Irish Literature
Lit 341	Novel to 1870
Lit 342	Contemporary Novel
Lit 343	Contemporary Poetry
Lit 346	Essay
Lit 348	Short Story
Lit 349	Bible as Literature
Lit 329	Classical Mythology
Lit 321	Great Books I
Lit 322	Great Books II
Eng 211	Journalism
Eng 313	Advanced Writing
Eng 317	Old English Language and Literature
Eng 318	Middle English Language and Literature
Lit 345	Criticism

* See also further listings under Theater Arts — Literature

D. PHILOSOPHY

Phi 372	Survey of Oriental Religions
Phi 374	Problems of Aesthetics
Phi 380	Ethics
Phi 480	Introduction to Philosophy
Phi 481	History of Philosophy, Ancient and Medieval
Phi 482	History of Philosophy, Modern
Phi 483	Philosophy of History
Phi 484	American Philosophy
Phi 485	Contemporary Philosophy
Phi 486	Philosophy of Religion
Phi 487	Philosophy of Science
Phi 488	Epistemology
Phi 490	Logic
Phi 491	Advanced Logic
Phi 498	Seminar in Ancient Philosophy
Phi 499	Seminar in Modern Philosophy

E. THEATER ARTS — SPEECH ARTS

1. Literature

Lit 332	English Drama to Renaissance
Lit 333	Shakespeare I
Lit 334	Shakespeare II
Lit 351	Modern Drama I
Lit 352	Modern Drama II

2. Dramatics

ThA 100	Theater Practice
ThA 101	Introduction to Theater
ThA 102	Theory and Technique of Acting I
ThA 103	Theory and Technique of Acting II
ThA 104	Technical Production
ThA 201	Stage Make-up
ThA 202	Basic Television Techniques
ThA 204	Stagecraft and Management
ThA 206	Educational Theater Production
ThA 207	Creative Dramatics
ThA 301	Principles of Directing
ThA 302	Production Methods in Television
ThA 304	History and Principles of Scene Design
ThA 305	History and Principles of Costume Design
ThA 307	Theory and Practice of Stage Lighting
ThA 308	History of Western Theater I
ThA 309	History of Western Theater II
ThA 310	History of Oriental Theater
ThA 401	Advanced Directing
ThA 402	Theater Techniques in Television
ThA 403	Advanced Acting
ThA 404	Advanced Scene Design

3. General Speech

Sph 103	Principles of Discussion
Sph 104	Oral Interpretation
Sph 105	Voice and Diction
Sph 106	Phonetics
Sph 201	Public Address
Sph 204	General Semantics
Sph 304	Advanced Oral Interpretation
Sph 402	Teaching Speech and Theater in Secondary School

4. Dance

HEd 242 Social, Square, and Advanced Folk Dancing
HEd 341 Modern Dance I
HEd 342 Modern Dance II
HEd 343 Principles of Choreography
HEd 344 Dance in Theater Arts

5. Music

Mus 410 Literature Musical Theater
Mus 412 Musico-Dramatic Production

6. Criticism

Lit 345 Criticism
Mus 328 Aesthetics and Music Criticism
Art 401 Aesthetics

Humanities Area

Normal Sequence of Courses

1			5		
Eng 101	3		Social Science Elective	3	
Lit 121	3		Elective in Major Area		
Lan	3		Free Elective		
Mat 101	3				
Elective in Major Area	3				
HEd 101	1	16			
2			6		
Eng 102	3		Phi 480	3	
Lit 127	3		Social Science Elective	3	
Lan	3		Elective in Major Area		
Mat/Log	3		Free Elective		
Elective in Major Area	3				
HEd 102	1	16			
3			7		
His 101	3		Geo 101	3	
Art 101	3		Elective in Major Area		
Elective in Major Area	6		Free Elective		
Sci	4				
HEd 150	2	18			
4			8		
His	3		Elective in Major Area		
Mus 220	3		Free Elective		
Sph 101	2				
Elective in Major Area	6				
Sci	4	18			

MATHEMATICS

The mathematics sequence begins with a core program involving analytic geometry and the calculus. This is followed by a required sequence of major courses covering the areas of analysis, algebra, geometry, and statistics.

Additional concentration in mathematics or related science areas is possible through available electives. This concentration enables each student to receive the basic preparation for the mathematical career of his choice. Among these are college teaching and research or other service in government and industry, including computer programming. In all cases each student receives a sound preparation for graduate study in the field of mathematics.

Curriculum in Mathematics

Required Courses	Semester Hours
1. General Studies Area*	62
2. Required Science Core Beyond General Studies	12
a. Physics	4
b. Laboratory Sciences	8
3. Elective Area of Concentration	33
a. Mat 141 credited to General Studies	
b. Mat 106, 142, 231, 241, 242, 343, 411, 412, 421, 441, 442.	
4. Free Electives as Advised	21
TOTAL	128

* Mathematics students are required to choose among Russian, German, and French to satisfy foreign language requirement.

Offerings for Concentration in Mathematics

Mat 106 Foundations of Mathematics

Mat 141 Analytic Geometry and Calculus I

Mat 142 Analytic Geometry and Calculus II

Mat 211 Linear Algebra

Mat 231 Modern Geometry I

Mat 232 Modern Geometry II

Mat 241 Analytic Geometry and Calculus III

Mat 242 Analytic Geometry and Calculus IV

Mat 343 Differential Equations

Mat 401 History of Mathematics

Mat 405 Special Topics in Mathematics

Mat 411 Modern Algebra I

Mat 412 Modern Algebra II

Mat 414 Theory of Numbers

Mat 421 Mathematical Statistics I

Mat 422 Mathematical Statistics II

Mat 425 Numerical Analysis

Mat 432 Topology

Mat 441 Advanced Calculus I

Mat 442 Advanced Calculus II

Mat 445 Complex Variable

Mathematics Area

Normal Sequence of Courses

1			5		
	Eng 101	3		Social Science Elective	3
	Sci	4		Electives in Major Area	
	Lan	3		Free Elective	
	Mat	3			
	Elective in Major Area	3			
	HEd 101	1 17			
2			6		
	Eng 102	3		Phi 480	3
	Sci	4		Social Science Elective	3
	Lan	3		Electives in Major Area	
	Mat	3		Free Elective	
	Elective in Major Area	3			
	HEd 102	1 17			
3			7		
	His 101	3		Geo 101	3
	Lit 121	3		Electives in Major Area	
	Art 101	3		Free Elective	
	Electives in Major Area	6			
	HEd 150	2 17			
4			8		
	His	3		Electives in Major Area	
	Lit	3		Free Elective	
	Sph 101	2			
	Mus 220	3			
	Electives in Major Area	6 17			

NATURAL SCIENCES

The natural science sequence is based upon a core program composed of: one-year laboratory courses in a biological science and a physical science, three courses in mathematics, and a special one-semester course in earth and space science.

After completing his required core, each student chooses an additional sequence of work in one of the following three sub-areas of concentration.

1. Biological Sciences (choice of botany or zoology).
2. Physical Sciences (choice of physics or chemistry).

Curriculum in Natural Sciences

Course Area	Semester Hours
1. General Requirements (Che 103-104 will be credited to the Natural Sciences requirement)	62
2. Required Natural Science Core Beyond General Requirements	25
a. Biological Sciences (Either Bio 111-112 or Bio 141-142)	8
b. Physics (Phy 101-102)	8
c. Elective in Astronomy or Earth Science	3
d. Mathematics (Courses in this area will vary depending on the Concentration Area chosen below)	6
3. Elective Areas of Concentration as Advised	
a. Biological Science	32
(1.) Bio 111-112 credited to General Studies	
(2.) Bio 141, 142, 301, 302, 344, 450 and Che 231, 232 required	
(3.) Other Biology Electives as advised	
b. Chemistry	32
(1.) Che 103-104 credited to General Studies	
(2.) Che 231, 232, 321, 324, 341, 342, 442 required	
(3.) Other Chemistry Electives as advised	
(4.) Mathematics through Mat 343 (Not included in the minimum of 32 credits)	

c. Physics 27
   (1.) Phy 101-102 credited to Natural Sciences Core
   (2.) Phy 212, 233, 421, 444 required
   (3.) Other Physics Electives as advised
   (4.) Mathematics through Mat 343 (Not included in the minimum of 32 credits)

d. Pre-Professional 27
   (Courses elected under advisement)

4. Free Electives as Advised 9-14

TOTAL 128

Offerings for Concentration Areas in the Natural Sciences

A. BIOLOGICAL SCIENCES

Bio 111 Botany I
Bio 112 Botany II
Bio 141 Zoology I
Bio 142 Zoology II
Bio 210 Field Botany
Bio 241 Field Zoology
Bio 242 Ornithology
Bio 243 Comparative Anatomy
Bio 261 Human Anatomy
Bio 262 Human Physiology
Bio 301 Genetics
Bio 302 Ecology
Bio 310 Bacteriology
Bio 341 Entomology
Bio 344 General Physiology
Bio 345 Plant Physiology
Bio 346 Plant Anatomy
Bio 351 Embryology
Bio 355 Wildlife Conservation
Bio 402 Cytology
Bio 411 Plant Taxonomy
Bio 450 Biology Seminar
Bio 452 Special Problems in Biology

B. PHYSICAL SCIENCES

1. Chemistry

Che 103 Inorganic Chemistry I
Che 104 Inorganic Chemistry II
Che 321 Quantitative Analysis
Che 231 Organic Chemistry I
Che 232 Organic Chemistry II
Che 341 Physical Chemistry I
Che 342 Physical Chemistry II
Che 324 Instrumental Methods of Analysis
Che 410 Advanced Inorganic Chemistry
Che 432 Qualitative Organic Analysis
Che 408 Industrial Chemical Processes
Che 401 History and Literature of Chemistry
Che 480 Introduction to Chemical Research

2. Geology

Sci 261 Physical Geology
Sci 262 Historical Geology
Sci 263 Mineralogy and Petrology
Sci 264 Geochemistry

3. Physics

Phy 101 Physics I
Phy 102 Physics II
Phy 212 Mechanics
Phy 233 Introduction to Modern Physics
Phy 413 Analytical Dynamics
Phy 414 Heat and Thermo-Dynamics
Phy 421 Electricity and Magnetism
Phy 422 Optics
Phy 423 Electronics
Phy 432 Atomic and Nuclear Physics
Phy 440 Introduction to Research
Phy 444 Seminar
Phy 330 General Astronomy

Natural Science Area

Normal Sequence of Courses

1				5	
	Eng 101	3		Social Science Elective	3
	Sci	4		Electives in Major Area	
	Lan	3		Free Elective	
	Mat	3			
	Elective in Major Area	4			
	HEd 101	1	18		
2				6	
	Eng 102	3		Phi 480	3
	Sci	4		Social Science Elective	3
	Lan	3		Electives in Major Area	
	Mat	3			
	Elective in Major Area	4			
	HEd 102	1	18		
3				7	
	His 101	3		Geo 101	3
	Lit 221	3		Electives in Major Area	
	Electives in Major Area	11		Free Elective	
	HEd 150	2	19		
4				8	
	His	3		Art 101	3
	Lit	3		Electives in Major Area	
	Sph 101	2		Free Elective	
	Mus 220	3			
	Electives in Major Area	8	19		

SOCIAL SCIENCES

The Social Science sequence is based on a required core of history, economics, political science, anthropology, and sociology. Included is a senior seminar in the area of concentration.

Beyond the required core there are six major areas of concentration with individual requirements of 24-30 semester hours. Students interested in specific post-baccalaureate careers in law, government work and the like are aided by departmental advisers to choose courses designed for these areas.

Area F is of special interest to students interested in social, welfare, or personnel work. The page **Planned Program in Social Work** explains the interest of the Commonwealth in this area.

Curriculums in Social Sciences

Course Area	Semester Hours
1. General Studies Area	62
2. Required Social Science Core	21
Students are required to take the following Departmental Courses:	
a. History of United States I, II	6
b. Principles of Economics	3
c. American Government	3
d. Cultural Anthropology	3
e. Introduction to Sociology	3
f. Senior Seminar (in major field)	3
3. Major Areas of Concentration	24-30
A student must select additional electives in one of the following areas to meet the major concentration requirement. General Education and Departmental Core courses are counted in meeting the semester hours requirement of the concentration:	
a. History	36-42
b. Economics	30-36
c. Political Science	30-36
d. Psychology	30-36
e. Sociology-Anthropology	30-36
f. Social, Welfare, and Personnel Work	36-42
4. Free Electives	15-21
TOTAL	128

Requirements for Major Concentrations in the Social Sciences

1. History 36-42

A student choosing History as a major concentration must take His 101-102 and His 211-212 as foundation courses; at least two elective courses from History Groups 1, 2 and 3; His 400; and additional History electives to total the 36-42 hour requirement.

In addition, History majors are especially advised to elect supplementary courses from the following: Ant 333, Geo 210, Geo 309, PSc 332, PSc 335, and Soc 335.

2. Economics 30-36

A student choosing Economics as a major concentration must take Eco 231, Eco 332, Eco 339, Eco 340, Eco 400, and additional Economics electives to total the 30-36 hour requirement.

In addition, Economics majors are especially advised to elect supplementary courses from the following: Mat 121, His 315, Geo 203, and Geo 308.

3. Political Science 30-36

A student choosing Political Science as a major concentration must take PSc 201, PSc 231, PSc 333, PSc 338, PSc 339, PSc 400, and additional Political Science electives to total the 30-36 hour requirement.

In addition, Political Science majors are especially advised to elect supplementary courses from the following: Eco 336, Eco 338, His 314, His 318, Mat 121, and Soc 336.

4. Psychology 30-36

A student choosing Psychology as a major concentration must take Psy 100, Psy 354, Psy 355, Psy 356, Psy 400, Psy 360, and additional Psychology electives to total the 30-36 hour requirement.

In addition, Psychology majors are especially advised to elect supplementary courses from the following: Ant 331, Bio 262, Mat 121 and Soc 338.

5. Sociology-Anthropology 30-36

A student choosing Sociology-Anthropology as a major concentration must take Soc 231, Soc 337, Soc 400, Ant 231, Ant 331, Ant 332 and additional Sociology and Anthropology electives to total the 30-36 hour requirement.

In addition, Sociology-Anthropology majors are especially advised to elect supplementary courses from the following: Mat 121, Psy 354, Psy 356, and Psy 375.

6. Social, Welfare, and Personnel Work 36-42

The Social Science F sequence is designed for students interested in entering social service or personnel work. A student following this program distributes at least thirty-six hours equally in three areas of concentration: Sociology, Psychology, and Economics.

The student choosing this major must take Soc 231, Soc 332, Soc 338, Psy 100, Psy 354, Psy 375, Eco 231, Eco 334, the Senior Seminar, and additional electives in the three areas to total the 36-42 hour requirement.

Offerings for Concentration Areas in the Social Sciences

A. HISTORY

1. American History

His 211 History of U. S. I
His 212 History of U. S. II
His 313 History of Pennsylvania
His 314 Diplomatic History of U. S.
His 315 Economic History of U. S.
His 316 History of American Frontier
His 317 History of American Science and Technology
His 318 Constitutional History of U. S.
His 319 Social and Cultural History of U. S.
His 320 History of the South

2. European History

His 219 Medieval Europe
His 220 Renaissance and Reformation
His 221 Modern Europe to 1815
His 222 Modern Europe since 1815
His 321 History of England
His 326 History of Russia

3. World and Regional History

His 101 History of Civilization I
His 102 History of Civilization II
His 218 Ancient World
His 322 History of South Asia
His 323 History of the Middle East
His 324 History of Latin America
His 325 History of the 20th Century World
His 327 The British Empire and Commonwealth
His 328 History of Modern Africa
His 329 History of East Asia

4. Special Studies

His 400 Senior Seminar
His 410 Independent Studies

B. ECONOMICS

Eco 231 Principles of Economics
Eco 332 Contemporary Economic Problems
Eco 333 Consumer Economics
Eco 334 Industrial Relations
Eco 335 Money and Banking
Eco 336 Business and Government
Eco 337 Economic Growth and Development
Eco 338 International Economics
Eco 339 Economic Statistics
Eco 340 Intermediate Economic Theory
Eco 341 Public Finance
Eco 342 Business Cycles
Eco 400 Senior Seminar
Eco 410 Independent Studies

C. POLITICAL SCIENCE

PSc 201 Introduction to Political Science
PSc 231 American Government
PSc 331 State and Local Government
PSc 332 Comparative Government
PSc 333 International Politics
PSc 334 American Political Parties
PSc 335 American Political Ideas
PSc 336 Soviet Government and Politics
PSc 337 American Foreign Policy
PSc 338 Introduction to Political Thought
PSc 339 Elements of Public Administration
PSc 340 American Constitutional Law
PSc 341 International Law
PSc 342 Public Opinion and Propaganda
PSc 343 Municipal Government
PSc 400 Senior Seminar
PSc 410 Independent Studies

D. PSYCHOLOGY

Psy 100 Introduction to Psychology
Psy 241 Psychology of Exceptional Children
Psy 243 Psychology of the Mentally Retarded
Psy 251 Human Development (Childhood)
Psy 352 Adolescent Psychology
Psy 354 Social Psychology
Psy 355 Experimental Psychology
Psy 356 The Study of Personality
Psy 361 Applied Psychology
Psy 362 History of Psychology
Psy 370 Mental Hygiene
Psy 375 Abnormal Psychology
Psy 400 Senior Seminar
Psy 410 Independent Studies

E. SOCIOLOGY - ANTHROPOLOGY

Soc 231 Introduction to Sociology
Soc 332 Contemporary Social Problems
Soc 333 The Family
Soc 334 Juvenile Delinquency
Soc 335 Racial and Cultural Minorities
Soc 336 Urban Sociology
Soc 337 Sociological Theory
Soc 338 Criminology
Soc 339 Social Stratification
Soc 340 Introduction to Social Work
Soc 400 Methods in Social Research Seminar
Soc 410 Independent Studies
Ant 231 Introduction to Cultural Anthropology
Ant 331 Human Evolution
Ant 332 Social Organization
Ant 333 Cultural Dynamics
Ant 334 World Ethnography
Ant 400 Senior Seminar
Ant 410 Independent Studies

PLANNED PROGRAM IN SOCIAL WORK

The Pennsylvania Department of Public Welfare supports a program of professional education providing financial assistance for full time study in clinical psychology, nursing education, occupational

therapy, physical therapy, psychiatric nursing and social work at the graduate level.

Eligibility:

Employees of the Department of Public Welfare, including its institutions and county boards of assistance; county child welfare agencies.

College graduates and Registered Nurses interested in a professional career in public welfare.

Requirements:

Acceptance by an accredited professional school within 350 miles of Harrisburg.

Persons not employed by the department may be required to take a civil service examination. Early inquiry is urged for notification of examination dates in the winter and early spring.

Agreement to accept one year of employment in the Department of Public Welfare for each year of professional education.

Financial Provisions and Future Employment:

Payment of tuition by the Department of Public Welfare.

Payment of salary as follows:

Appointees with 12 months or more of employment, as outlined under **Eligibility**, will receive current salary reduced by two increment steps.

Appointees with no employment, as outlined under **Eligibility** will receive $118 biweekly before deductions for withholding tax, social security and state employees retirement.

Regular employment in a position for which the graduate qualifies. Appointments will be made in accordance with needs and appropriate regulations and may be in Department headquarters, departmental institutions (mental health or correctional), county boards of assistance or county child welfare agencies.

How to Apply:

Application forms and information about this Professional Education Program and Civil Service examinations may be obtained from the Bureau of Personnel, Department of Public Welfare, Harrisburg, Pennsylvania, any state mental institution or youth development center, county board of assistance or county child welfare agency.

May 1 of each year is the last date of application.

Preparations:

To enter a School of Social Work no particular sequence of courses is required so long as the applicant has a Bachelor's degree from an accredited institution. Courses in the Social Sciences, particularly Sociology and Psychology, are most desirable. Students interested in preparing for a career in Social Work should contact the chairman of the Department of Social Sciences or the Dean of Liberal Arts and Sciences.

Social Science Area

Normal Sequence of Courses

1				5		
	Eng 101	3			Social Science Elective	3
	His 101	3			Electives in Major Area	
	Lan	3			Free Elective	
	Mat 101	3				
	Elective in Major Area	3				
	HEd 101	1	16			
2				6		
	Eng 102	3			Phi 480	3
	His 102	3			Social Science Elective	3
	Lan	3			Electives in Major Area	
	Electives in Major Area	6			Free Elective	
	HEd 102	1	16			
3				7		
	Lit 121	3			Geo 101	3
	Art 101	3			Electives in Major Area	
	Electives in Major Area	6			Free Elective	
	Sci	4				
	HEd 150	2	18			
4				8		
	Lit	3			Electives in Major Area	
	Mus 220	3			Free Elective	
	Sph 101	2				
	Electives in Major Area	6				
	Sci	4	18			

SOCIAL SCIENCE — GEOGRAPHY

The geography sequence is based on a core of required and elective courses in the earth sciences; economic, regional, cultural and political geography; social science courses; and a senior seminar in geography. The sequence is designed to give a student breadth over the field of geography.

Additional concentration in any of the above areas of geography or in related fields is possible within this sequence. The sequence of courses may be altered at the discretion of the department chairman. The sequence is designed to train geographers for work in government, in industry, and agencies, both private and governmental, that are concerned with planning.

Curriculum in Geography

Course Area	Semester Hours
1. General Studies Area	62
2. Required Geography Core Beyond General Requirements	36
a. Earth Science	6
1. Geo 205 Geomorphology	3
2. Geo 302 Climatology	3
b. Economic Studies	6
1. Geo 203 Economic Geography	3
2. Electives	3
c. Regional Studies	9
1. Geo 202 Geography of the U. S. and Canada	3
2. Electives	6
d. Cultural and Political Studies	6
1. Geo 210 Geographic Influences in American History	3
2. Electives	3
e. Techniques in Geography	6
1. Geo 211 Map Appreciation and Interpretation	3
2. Electives	3
f. Geo 416 Geography Senior Seminar	3
3. Required Courses in Related Fields	6
a. Social Science	6
1. His 102 History of Civilization II	3
2. His 212 History of U. S. and Pennsylvania II	3
4. Elective Areas in Related Subjects as Advised	15
a. Social Science	9

*Eco 231 Principles of Economics
Eco 332 Contemporary Economic Problems
Eco 333 Consumer Economics
Eco 334 Industrial Relations
*PSc 231 American Government
PSc 333 International Relations
PSc 337 American Foreign Policy
His 222 History of Europe Since 1815
His 315 Economic History of the U. S.
His 316 History of the American Frontier
His 317 History of American Science and Technology
His 325 History of the Twentieth Century World
Ant 231 Introduction to Cultural Anthropology
Ant 331 Human Evolution
Ant 332 Social Organization
Ant 334 World Ethnography
Soc 231 Introduction to Sociology
Soc 336 Urban Sociology

b. Mathematics and Natural Science 6

Mat 105	College Algebra and Trigonometry
Mat 106	Foundations of Mathematics
Mat 121	Statistics
Sci 261	Physical Geology
Sci 262	Historical Geology
Bio 302	Ecology

5. Free Electives as Advised 9

TOTAL 128

* Required if not taken in the General Studies Area

Offerings for Selection of Electives in Geography

EARTH SCIENCES

Geo 205	Geomorphology
Geo 206	Meteorology
Geo 301	Introduction to Geology
Geo 302	Climatology

ECONOMIC STUDIES

Geo 201	Conservation of Natural Resources
Geo 203	Economic Geography
Geo 308	Trade and Transportation
Geo 414	Urban and Regional Planning

REGIONAL STUDIES

Geo 202	Geography of U. S. and Canada
Geo 204	Geography of Pennsylvania
Geo 207	Geography of Europe
Geo 208	Geography of Latin America
Geo 304	Geography of Asia
Geo 305	Geography of the Far East
Geo 306	Geography of Africa
Geo 307	Geography of the Soviet Union
Geo 412	Geography of Australia and Associated Islands

CULTURAL AND POLITICAL STUDIES

Geo 209	The U. S. in Its Global Relationships
Geo 210	Geographic Influences in American History
Geo 309	World Problems in Geography
Geo 313	Geography of Population

TECHNIQUES IN GEOGRAPHY

Geo 211	Map Appreciation and Interpretation
Geo 303	Cartography
Geo 310	Geography Field Study Methods
Geo 415	Geography Area Field Study Courses I, II, and III

SEMINAR

Geo 416	Geography Seminar

Geography Area

Normal Sequence of Courses

1				5	
	Eng 101	3		Social Science Elective	3
	His 101	3		Electives in Major Area	
	Lan	3		Free Elective	
	Mat 101	3			
	Geo 101	3			
	HEd 101	1	16		
2				6	
	Eng 102	3		Phi 480	3
	His 102	3		Social Science Elective	
	Lan	3		Electives in Major Area	
	Electives in Major Area	6		Free Elective	
	HEd 102	1	16		
3				7	
	Lit 121	3		Mus 220	3
	Art 101	3		Electives in Major Area	
	Electives in Major Area	6		Free Elective	
	Sci	4			
	HEd 150	2	18		
4				8	
	Lit	3		Electives in Major Area	
	Sph 101	2		Free Elective	
	Electives in Major Area	9			
	Sci	4	18		

Thanks to the generosity of William Pyle Philips (1882-1950), the College has the rare privilege of possessing a collection of all four of the original Shakespeare Folios. One of his several magnificent bequests to West Chester, the Folios were given as a mark of his devotion to Francis Harvey Green, Mr. Philips' onetime English teacher and a former chairman of the English Department, for whom the College's library is named. William Pyle Philips was the son of George Morris Philips, Principal of the West Chester Normal School from 1881 to 1920.

COURSE OFFERINGS

Course Offerings

Art Department

MR. HALLMAN, *Chairman*

Associate Professors: McKinney, Simmendinger; Assistant Professors: Hawthorne, Hoberg, Ring, Defino; Lecturer: Traub.

Art 101 Fine Arts *3 semester hours*

This course deals with the appreciation of the Fine Arts—painting, sculpture, and architecture. The following subjects are also treated: graphics, dance, ceramics, fashions. Both semesters and summer.

Art 201 Arts and Crafts *3 semester hours*

An elective course designed for either elementary or liberal arts students. The course provides an opportunity to experiment with craft materials and to produce a number of specified projects. Some of the techniques introduced are wood finishing, mosaics, embroidery, and needlepoint. The student throughout the course is made aware of the great leaders in the field of crafts both past and present. Fall semesters of even years. Summer, odd years. Elective.

Art 202 Art For the Elementary Grades *3 semester hours*

This course provides opportunity for the student to develop his powers of self-expression, to gain experience in the use of the fundamental elements and principles of art structure related to two dimensional and three dimensional expression, to establish a basis for an understanding and evaluation of children's work, and to gain a comprehensive knowledge of the school art program. Various media used. Fall, spring, summer.

Art 301 Painting I (Oil) *3 semester hours*

An elective course which aims to develop expression in drawing and painting. Pictorial composition and oil painting techniques are stressed. No prerequisites. Fall, spring, summer.

Art 302 Painting II (Watercolor) *3 semester hours*

A basic course in watercolor which includes both the transparent and opaque watercolor technique. The use and the limitations of the watercolor as an art medium and information concerning both watercolor papers and brushes will be given. Spring.

Art 310 Sculpture I *3 semester hours*

This course offers the student an opportunity to develop an individual expression in relation to three dimensional design. The student will have the experience of working in a variety of mediums, such as wood, clay, plaster, and certain metals. The materials are treated experimentally with the aim of achieving creative interpretation. Elective. No prerequisites. Both semesters and summer.

Art 311 Sculpture II *3 semester hours*

A concentrated course in sculpture offering advanced work in wood, alabaster, welded metal and Carrara marble. Individual interpretation is encouraged with emphasis on creative expression. Elective. Prerequisite: Sculpture I. Both semesters and summer.

Art 320 Drawing *3 semester hours*

This beginning course in the exploration of line will develop drawing skills in such media as pencil, pen and ink, charcoal, and pastel. Pure contour drawing as well as enriched color drawings will be done of the figure, landscape, and still life. (Required of all art majors and prerequisite to all other studio courses.)

Art 330 Ceramics *3 semester hours*

Experimentation with the plastic characteristics of clay. Understanding of materials, techniques, and processes involved in ceramics. Introduction to coil, slab, mold, and wheel methods of construction; knowledge of clay bodies, glazes, textures, kiln firing, etc. Emphasis upon design as an organic outgrowth of the ceramic process.

Art 340 Graphics *3 semester hours*

A course designed to prepare the student to participate in various graphic processes. Some of the techniques to be explored are woodcut, engraving, etching, lithography, serigraphy, etc. The student will become familiar with use of the printing press as well as the various papers and inks used for each process.

Art 401 History of Aesthetics *3 semester hours*

This course is directly concerned with theories and philosophies of art, the psychological and physical impact of art on both the individual and the social group. Basic influences which engender the creative process are included in this course. Elective. Spring semester of odd years.

Art 404 History of Western Art I
Prehistoric to Renaissance *3 semester hours*

A Liberal Arts course which traces the development of Western Art forms from ancient Middle East origins to European Middle Ages. Special emphasis given the interrelationship of secular and religious ideas to changing artistic forms. Consideration given the distinctive nature of Western forms and ideas as opposed to parallel Eastern developments. (It is suggested, if possible, that students take History of Non-Western Art concurrently.) Both semesters.

Art 405 History of Western Art II
Renaissance to Late Baroque *3 semester hours*

Continuation of 404. Special attention given to interpreting the impact of the Copernican cosmology of the evolution of period styles: Renaissance, Mannerism, Baroque, Rococo, Neo-Classicism, Romanticism, etc. Both semesters.

Art 406 History of Western Art III
Rococo to Abstraction *3 semester hours*

The major period of anti-classicism and the development of a new artistic sensibility.

Art 407 History of Non-Western Art *3 semester hours*

A Liberal Arts course designed to relate art to the total view of Eastern social philosophy. Main emphasis placed on China, Korea, and Japan, but the essential background of Middle East origins will also be studied. (See 404.) Spring semester.

Art 408 Arts of the United States *3 semester hours*

A Liberal Arts course covering painting, architecture, sculpture, and the decorative arts of high society and folk traditions. Special attention given to the conflict between artistic motivation and the demands of the market place; between traditional art forms and the need for new forms resulting from industrialism. Fall semester.

Education Department

DR. BENDA, *Chairman*

Professors: Bannon, Gregg, Hill, King, Kramer, McTavish, Strayer, Weagley; Associate Professors: Barth, Carr, Clark, Freeman, Good, Greenberg, Haas, Habecker, Herres, Lander, Lynch, McClure, Mississyan, Patterson, Rahn, Recktenwald, Shinehouse, Studenmund, Swiren, Thomas; Assistant Professors: Buechele, Clauser, Francella, Kulp, Pottieger, Redmond; Lecturers: Bourgeois, Feldman.

Demonstration School

MR. CARTRIGHT, *Principal*

Assistant Professors: DiMarco, Grafton, Jones, Ryan, Wolfe; Instructors: Chalick, Morgan.

Supervisors of Student Teaching

DR. EVANS, *Director*

Associate Professors: Darkatsh, Deischer, Good, Holingjak, Sedinger. Talley; Assistant Professors: German, Morganthall, Walters.

Edu 100 School and Society *3 semester hours*

An introduction to the nature, function, scope, organization, administration, and support of the public school in American society. The professional nature of teaching will be emphasized, and the critical issues confronting education will be examined. Activities will include observation of schools in operation. Both semesters and summer.

Edu 150 Introduction to Guidance and Counseling *3 semester hours*

A survey course which focuses upon such guidance processes as individual appraisal, the information service, counseling, placement, and follow-up procedures. Group guidance processes will also be discussed, such as orientation, homeroom guidance, and the like. Prerequisite: Psy 100. Both semesters and summers.

Edu 250 Psychology of Learning and Development *3 semester hours*

A study of learning in relation to the physical, social, emotional, and intellectual aspects of personality. The application of learning principles to actual classroom situations is especially emphasized through observation and interpretation. Both semesters and summer.

Edu 300 Audio-Visual Education *2 semester hours*

Consideration of the need for sensory techniques and materials in the learning process with attention given to the psychological principles involved. Acquaintance with and achievement of skills in specific techniques, materials, and equipment. Activities will include actual production of materials for classroom use and participation in their use. Both semesters and summer session.

Edu 301 Early Childhood Education *3 semester hours*

Study of preschool children, nursery school and kindergarten programs, materials, equipment and procedures, records, and reports. Consideration is given to the values of preschool education and the relationship between the kindergarten and first grade programs. Laboratory school experiences supplement reading and discussion of acceptable standards and teaching practices. Prerequisite: Human Development (Childhood), or permission of the instructor. Spring semester and summer session.

Edu 302 Problems of Secondary Education including Reading *3 semester hours*

This course is designed to acquaint students who are preparing to teach on the secondary level with the basic problems and responsibilities found within the framework of a secondary school. The course includes some phases of guidance. Consideration is given to the role the teacher is expected to play within the overall guidance organization. Summer.

Edu 303 Creativity in the Classroom *3 semester hours*

A course dealing with the exploration of materials and processes of children's perceptions and behavior with a view to encouraging the development of their critical and creative potentials. Summer session.

Edu 306 Field Experience in Secondary Education *3 semester hours*

The course will emphasize the organization, function, and responsibilities of the modern secondary school. Emphasis will also be placed on practical experiences in identifying, analyzing, defining, and discussing problems in secondary education. This course provides an opportunity for the student to work as a teacher-aide in cooperating high schools. Prerequisites: Edu 100 and Edu 250. Both semesters.

Edu 309 Language Arts in the Elementary School *6 semester hours*

A study of the concepts basic to language instruction, language development in children, listening, oral language, nature of the reading process, child development and reading, materials of instruction, the reading program, and written expression, including handwriting and spelling. Attention is focused on the interrelationships among these various facets of the language arts and their implications for teaching. This course combines the content of Edu 317 and of Edu 319, but it focuses on the interrelatedness among the language arts. Both semesters and summer.

Edu 317 Oral and Written Expression in the Elementary School *3 semester hours*

Survey of the content of the curriculum in English in the elementary grades; oral and written expression, including listening, principles of grammar, handwriting and spelling. By permission of the Dean of Undergraduate Studies. Evenings and summer session.

Edu 319 Reading in the Elementary School *3 semester hours*

Backgrounds and nature of the reading process, child development and reading, reading program through the grades, including a presentation of a variety of modern materials and approaches to reading instruction. With department approval and by permission of the Dean of Undergraduate Studies. Evenings and summer session.

Edu 320 Teaching of Reading in the Secondary School *3 semester hours*

A study of the nature of the reading process, the reading program, and reading study skills; approaches and materials for teaching reading. Open only to students preparing to teach in the secondary school. Both semesters and summer.

Edu 321 Diagnostic and Remedial Reading *3 semester hours*

Identifying the problems and needs common to disabled readers. Procedures and materials for dealing with such problems. Prerequisites: Edu 309, 319, or 320. Spring semester and summer.

Edu 330 Teaching the Exceptional Child *3 semester hours*

The study of atypical children who need help in order to adjust and succeed to the extent of their capacity. Students are guided in recognizing, understanding, and dealing with the additional needs of the physically or mentally handicapped child and the superior child, and in fostering their social and emotional development. Attention is directed to the selection of learning aids and materials and the adaptation of teaching techniques in the normal classroom situation. Prerequisite: Psy 100. Both semesters and summer session.

Edu 340 The Curriculum and the Gifted Child *3 semester hours*

This course deals with a study of the gifted child and ways of providing an effective educational program to meet his needs. Recent research on the gifted child will provide a basis for studying the curriculum and methods of teaching which schools have found to be most effective and practical. Summer session.

Edu 351 Evaluation and Measurement *2 semester hours*

A survey of testing materials and procedures with emphasis on the interpretation and application of results for pupil-guidance purposes. Areas studied will include examination of various types of testing materials, criteria for selection, techniques for summarizing data, organization, administration, and evaluation of the testing program. Prerequisites: Psy 100 and Edu 250. Both semesters and summer.

Edu 360 The Culturally Disadvantaged Child *3 semester hours*

A survey concerning the backgrounds, problems, and potentialities of the culturally disadvantaged school youth. It will deal with all levels of education, pre-school through high school. Prerequisites: Psy 100, Edu 250, and Psy 251 or Psy 352.

Edu 401 Problems of Elementary Education *3 semester hours*

This course deals with the educative process as a functional relationship between the learner and his environment aided by organized learning situations. An attempt is made to draw together all the methods in terms of basic curriculum principles for the modern elementary school. The prospective teacher is introduced to the scope of the teacher's day-to-day responsibilities and helped to develop insight into how these responsibilities can be carried out effectively. Prerequisite: All psychology and methods courses listed for first six semesters. Both semesters and summer.

Edu 411 Student Teaching and Direction of Student Activities (Elementary Majors) including Practicum *12 semester hours*

Observation and participation in all teaching and activities related to the performance of a teacher's work in the elementary school. All students meet once each week as a group in a practicum session related to problems growing out of the teaching and related activities. Prerequisite: 96 semester hours including all psychology and methods courses listed for first six semesters.

Edu 412 Student Teaching and Direction of Student Activities (Secondary Majors) including Practicum *12 semester hours*

Observation and participation in all teaching and activities related to the performance of a teacher's work, in the area of the student's specialization. Both semesters and summer session.

Psychology

Psy 100 Introduction to Psychology *3 semester hours*

A comprehensive study of the origins, motives, and modifications of human behavior with emphasis on the scientific approach in analyzing behavior patterns; the importance of man's biological inheritance, and the significance of social environment in influencing human living. Attention is given to the simpler techniques in psychological experimentation. Both semesters and summer session.

Psy 241 Psychology of Exceptional Children *3 semester hours*

Psychology of children having superior or inferior intellectual ability; defective vision, hearing and speech; emotional, social and physical handicaps. Prerequisite: Psy 100. Spring semester and summer session.

Psy 243 Psychology of the Mentally Retarded *3 semester hours*

A survey of the psychological development of mentally retarded children with special emphasis on socio-economic, cultural, emotional and educational factors which influence their behavior. Prerequisite: Psy 241. Fall semester.

Psy 251 Human Development (Childhood) *3 semester hours*

A study of child growth, from birth through preadolescence, with emphasis on individual differences among children and on the interrelatedness of the various aspects of development (physical, mental, emotional, social, and moral). Stress is placed on studying, understanding, and guiding children's behavior at the elementary school level. Prerequisite: Psy 100.

Psy 352 Adolescent Psychology *3 semester hours*

This course is concerned with a practical understanding of personality development, maturation, and problems of the adolescent. Attention is given to the inter-relationship of physical, emotional, and social growth within the context of such social institutions as the home, school, and community. Prerequisite: Psy 100. Fall, spring, and summer sessions.

Psy 354 Social Psychology *3 semester hours*

A study of the individual in his social setting, including social norms and frames of reference, and the influence of groups and subcultures on personality and social behavior. Research studies in the field of social psychology will be compared and evaluated. Prerequisite: Psy 100.

Psy 355 Experimental Psychology *3 semester hours*

A laboratory course to introduce planning, performing, and evaluating psychological experiments. Students carry out both original and classical experiments in the main areas of psychology. The experimental literature is reviewed. Two lectures plus a double-period laboratory session per week. Prerequisite: Psy 100. Spring semester and summer session.

Psy 356 The Study of Personality *3 semester hours*

This course is designed primarily to provide insight into the meaning, development, and structure of the normal human personality. To accomplish this a number of approaches will be investigated, representative theories examined, and techniques for assessing personality characteristics evaluated. The chief emphasis will be on developing propositions established from various points of view examined in the course. Prerequisites: Psy 100, Edu 250, and Psy 251 or Psy 352, or equivalent.

Psy 361 Applied Psychology *3 semester hours*

Survey of basic psychological principles as applied to industry, engineering, and other professions. Prerequisite: Psy 100.

Psy 362 History of Psychology *3 semester hours*

History of the development of psychology from the nineteenth century to the present. Emphasis on the emergence of modern experimental psychology. Prerequisite: Psy 100.

Psy 370 Mental Hygiene *3 semester hours*

This course attempts to analyze the individual from several standpoints according to the principles of mental hygiene. The practical phase of the course is the application of these principles to the individual's problems of adjustment to the school and society. Field trips are also included in the course content. Prerequisite: Psy 100. Fall semester and summer session.

Psy 375 Abnormal Psychology *3 semester hours*

A course designed to acquaint the student with the nature and manifestations of normality and abnormality, mental mechanisms and symptoms, psychoneuroses, psychoses, and the psychopathic personality. Study of typical cases will include the functions of both professional and lay people in dealing with abnormality. Prerequisites: Psy 100, Edu 250, and Psy 251 or Psy 352, or the equivalent.

Psy 400 Senior Seminar in Psychology *3 semester hours*

Research in psychology. Emphasis on methodology, bibliography, and presentation, both oral and written. The research paper written for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all psychology majors in Liberal Arts and Sciences. Substitutes for SSc 400.

Psy 410 Independent Studies in Psychology *1 to 3 semester hours*

Special research projects, reports, readings in psychology. Open to seniors only. Prerequisite: permission of department chairman.

Special Education

SpE 344 Problems in Special Education *2 semester hours*

A study of significant problems in the field of Special Education. Topics for special study include: articulation of primary and secondary programs; interpretation of special education program to parents, school personnel, and the community; development of community resources to meet the need of atypical children; selection of pupils and problems of organization. Spring semester.

SpE 348 Curriculum and Methods for Mentally Retarded *3 semester hours*

Course dealing with the effective methods of teaching mentally retarded children, the development of programs of study, classroom techniques, adaptations of materials and appraisal of results. Both semesters.

SpE 349 Curriculum and Methods for Physically Handicapped *3 semester hours*

A course dealing with the effective methods of teaching physically handicapped children, the development of programs of study, adaptation of materials and appraisal of results. Both semesters.

English Department

MR. CLOKEY, *Chairman*

Professors: Bailey, Berry, Binney, Bruehl, Halley, Jordan, McKenty, Slagle, Thomas, West; Associate Professors: Bosworth-Fling, Browne, Bruton, Cope, Corr, Garrett, Henry, Kershner, Landrum, McDowell, Peterson, Sanelli, Smith, Smith, Suppan; Assistant Professors: Ford, Griffin, Hamilton, Jacobs, Lynn, Manburg, Mayson, Nechas, Rimel, Thurbon, Ward; Instructors: Giles, Hockenberry, Nechas, Romanelli, Rowe.

English Composition

Eng 101 English Composition I *3 semester hours*

Brief review of grammar and mechanics. Vocabulary study. Writing of compositions based upon wide reading by students. An introduction to the use of the library. Both semesters and summer sessions.

Eng 102 English Composition II *3 semester hours*

Study of composition: methods and types of exposition, description, narration; paragraph and theme writing; book reviewing. Detailed study of techniques of research and writing of an original research paper. Wide reading. Logic as applied to composition. Prerequisite: Eng 101. Both semesters and summer sessions.

Eng 211 Mass Media in Society *3 semester hours*

An introductory course in theory and problems of the mass media and their role in American culture. Both semesters.

Eng 212 Principles of Newspaper Production I *2 semester hours*

A workshop course in which students receive instruction in newspaper production through lectures and by working with professional newspaper production equipment in conjunction with the College's student newspaper. Fall semesters.

Eng 213 Principles of Newspaper Production II *2 semester hours*

A continuation of Newspaper Production I. Spring semesters.

Eng 214 Principles of Yearbook Production I *2 semester hours*

A course covering all phases of yearbook planning, writing, editing, production, and financing. For yearbook staff members and potential yearbook advisers. Fall semesters.

Eng 215 Principles of Yearbook Production II *2 semester hours*

A continuation of Principles of Yearbook I, with practical applications of theories developed in the previous semester. Prerequisite: Eng 214. Spring semesters.

Eng 216 News Reporting *2 semester hours*

Basic theory and practice in gathering and writing news for all media; study of news values, and research, writing, and interview techniques, with emphasis on news assignments. Prerequisite: Eng 211. Fall semesters.

Eng 217 Feature Writing *2 semester hours*

The role of features in newspapers and magazines. Emphasis is placed on selecting ideas, gathering material, and writing feature articles. Prerequisite: Eng 211. Spring semesters.

Eng 218 History of Communications *3 semester hours*

History and development of newspapers, magazines, motion pictures, radio, and television, and the influence of historic backgrounds on contemporary practices. Prerequisite: Eng 211. Spring semesters.

Eng 313 Advanced Writing *3 semester hours*

Experience in writing through the preparation of reviews and critical reports, employing expository, descriptive, narrative, and argumentative techniques. Consideration of style and diction. Some experience in creative writing. Prerequisites: English 101, 102. Both semesters.

Eng 314 History of Language *3 semester hours*

A review of the major forces and influences which have shaped language development with emphasis on the history of the English language. Both semesters.

Eng 315 Advanced Grammar *3 semester hours*

A study of the role and development of English grammar including a survey of the linguistic influences on the descriptive approach to this discipline. Prerequisites: English 101, 102. Both semesters.

Eng 316 Teaching English in Secondary Schools *3 semester hours*

A review of the content of language-arts requirements of the secondary school, with special reference to grade-placement with adaptation of materials, appraisal of results, and the development of programs of study. Prerequisites: First and second years' English courses. Both semesters.

Eng 317 Old English Language and Literature *3 semester hours*

An introductory study of the language and a review of selections from the religious and secular poetry. Prerequisite: English 314. Fall semesters.

Eng 318 Middle English Language and Literature *3 semester hours*

An introductory study of the language and a review of Middle English texts (exclusive of Chaucer). Prerequisite: English 314. Spring semesters.

Eng 319 Linguistics — English *3 semester hours*

A study of recent linguistic approaches to a knowledge of the structure of the English language.

Eng 321 Creative Writing *3 semester hours*

A study, practice, and forum for the expression of ideas in various literary forms, either in poetry or prose. Prerequisite: Permission of instructor.

Eng 400 English Seminar *3 semester hours*

Admission by permission of instructor. Seniors granted preference. Both semesters.

Literature

Lit 121 General Literature I *3 semester hours*

An introduction to literature providing opportunities for intensive reading in a wide variety of major literary works. The purpose is to familiarize students with the development of human thought as it has been expressed in Western literature from Homer to Cervantes. Fall semesters.

Lit 122 General Literature II *3 semester hours*

Shakespeare to the present. Prerequisite: Literature 121. Both semesters.

Lit 127 General Literature II *3 semester hours*

Literature of Continental Europe from Neoclassicism to the present. For English Majors and Liberal Arts Humanities Majors only—in lieu of Literature 122. All reading will be done in translation. Prerequisite: Literature 121. Both semesters.

Lit 223 American Literature I *3 semester hours*

A survey of representative American writings from Colonial times to 1860, particular attention being given those writings which best exemplify democratic ideals and national character. Fall semesters.

Lit 224 American Literature II *3 semester hours*

A survey of representative American writings from 1860 to the present. Spring semesters.

Lit 225 English Literature I *3 semester hours*

English literature surveyed from Anglo-Saxon times to Robert Burns. Fall semesters.

Lit 226 English Literature II *3 semester hours*

English literature surveyed from Robert Burns to the present. Spring semesters.

Lit 321 Great Books I *3 semester hours*

A study in depth of six selected major writings that have made significant contributions to the development of Western Civilization.

Lit 322 Great Books II *3 semester hours*

Six additional masterworks are used to continue the study of the progress of Man in the world.

Lit 329 Classical Mythology *1 semester hour*

A study of the literature of mythology. Fall semesters of odd years.

Lit 330 Medieval Literature in England *3 semester hours*

Medieval English Literature (1066-1500). A survey of literature from the Norman conquest to the accession of the Tudors, emphasizing the popular forms: lyric, romance, metrical tale, fabliaux, and ballad. Prerequisites: Literature 225. 226. Spring semesters of even years.

Lit 331 Chaucer *3 semester hours*

A study of *Canterbury Tales* and *Troilus* and *Criseyde* with emphasis upon literary interpretation. Prerequisite: Literature 225. Spring semesters.

Lit 332 English Drama to the Renaissance *3 semester hours*

A study of the drama in England from the early liturgical tropes to Shakespeare's contemporaries. Fall semester of even years.

Lit 333 Shakespeare I *3 semester hours*

A study of selected comedies, histories, and tragedies with emphasis on literary and historical background and on Shakespeare's development as a dramatist. Fall semesters.

Lit 334 Shakespeare II *3 semester hours*

A continuation of the first semester. Spring semesters.

Lit 335 Eighteenth-Century Literature *3 semester hours*

A critical consideration of significant eighteenth-century writers with emphasis upon the struggle between tradition and revolt as reflected in the works of the representative writers of the period. Spring semester of even years.

Lit 336 The Romantic Movement *3 semester hours*

A study of Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries in the light of social background and critical doctrine. Spring semesters of odd years.

Lit 337 Victorian Literature *3 semester hours*

A study of Victorian thought and culture in selections of non-fiction prose and poetry of Macaulay, Mill, Newman, Ruskin, Huxley, Pater, Tennyson, Browning, Arnold, Swinburne, and the Pre-Raphaelites. Prerequisite: Literature 226. Fall semesters of even years.

Lit 338 Modern Irish Literature *3 semester hours*

A study of the major literary works of Ireland from 1860 to the present, with special emphasis on Moore, Synge, Yeats, Joyce, Shaw, and O'Casey. Spring semesters of even years.

Lit 339 Tudor-Stuart Literature *3 semester hours*

A study of the prose and poetry of the Tudor and Stuart periods with emphasis on major writers not covered in individual courses: Spenser, Marlowe, Jonson, Milton, Donne, the Cavaliers, Dryden, and others. Prerequisites: Literature 225, 226. Fall semesters of odd years.

Lit 341 Novel to 1870 *3 semester hours*

A study of the rise and development of the novel in English from the eighteenth century to Hardy and Mark Twain. The reading of a selected list of novels for analysis with a view to cultivating an appreciation of this dominant literary form. Fall semesters of odd years.

Lit 342 Contemporary Novel *3 semester hours*

A study of modern and contemporary movements in fiction, based on the critical reading and analysis of English and American novels published since 1870. Spring semesters of odd years.

Lit 343 Contemporary Poetry *3 semester hours*

An examination of representative poetry published since 1870 in both England and America and a study of forms, aspects, and tendencies in contemporary verse, with particular reference to poetry as a criticism of modern life. Fall semesters of even years.

Lit 345 Criticism *3 semester hours*

A historical study of literary criticism and aesthetic theory, with emphasis upon romanticism and classicism. Spring semesters of odd years.

Lit 346 Essay *3 semester hours*

A study of the history and development of the essay as a distinctive literary form, together with readings in current periodical nonfiction, and provision for opportunities for self-expression through writing. Spring semesters of even years.

Lit 348 Short Story *3 semester hours*

A study of the development of the short story as a distinct and popular current literary form. Fall semesters of even years.

Lit 349 Bible as Literature *3 semester hours*

A study of the books of the English Bible, especially the King James Version, as they have become a part of English and American Literature and of the cultural heritage of the English speaking people. Spring semesters of even years.

Lit 350 Children's Literature *3 semester hours*

An introduction to important children's books, old and new, and to techniques for presentation of book material, the encouragement of wide reading of juvenile literature and provision of criteria for and experience in the evaluation of children's books. Each semester.

Lit 351 Modern Drama I *3 semester hours*

A comprehensive view of the best dramatic literature of modern European, American, and British theater since 1890. Fall semesters of odd years.

Lit 352 Modern Drama II *3 semester hours*

A close study of the work and contribution of no more than five of the most significant Western playwrights of the twentieth century.

Lit 353 Reading Interests of Secondary School Students *3 semester hours*

An English Department service course designed to help the teacher to understand and to participate in the reading growth in fiction and non-fiction of students at the junior and senior high school levels.

Theater Arts

ThA 100 Theater Practice *1 semester hour*

Provides laboratory work encompassing all aspects of the preparation and maintenance of productions, including rehearsing, construction, painting, lighting, etc. Both semesters.

ThA 101 Introduction to the Theater *2 semester hours*

Analyzes the basic aspects of theatrical art, including criticism of plays and productions; development of stage conventions; theories of acting, directing, and design; responsibilities of directors, actors, designers, and other technicians. Fall semesters.

ThA 102 Theory and Technique of Acting I *4 semester hours*

Introduces techniques of performance and begins development of actor's sensory, emotional, imaginative, pantomimic, and rhythmic expressiveness. Includes one hour of lab. Prerequisite: Sph 104.

ThA 103 Theory and Technique of Acting II *4 semester hours*

A continuation of ThA 102. Furthers the development of fundamentals and requires each student to participate in laboratory productions. Prerequisite: ThA 102.

ThA 104 Technical Production *2 semester hours*

A technical orientation including an elementary survey of principles and practices of production organization, stage design, stage mechanics, and lighting.

ThA 201 Stage Make-up *2 semester hours*

Introduces the principles of make-up design, and develops basic skills in various techniques.

ThA 202 Basic Television Techniques *2 semester hours*

Examines television equipment and studio practices; employs cameras, and sound and control equipment.

ThA 204 Stagecraft and Management *3 semester hours*

Involves planning, construction, painting and rigging of scenery; management of all operations backstage and in the house. Practical experience in college productions. Prerequisite: ThA 104.

ThA 206 Educational Theater Production *3 semester hours*

Analyzes selection criteria for high school and elementary plays; examines equipment and techniques available to the director in elementary and public schools. Summer sessions.

ThA 207 Creative Dramatics *3 semester hours*

Studies the techniques and theories of playmaking as a teaching tool for adults and as a means of developing expressiveness in children.

ThA 301 Principles of Directing *3 semester hours*

Explores fundamental theories, practices, and techniques of play production. Laboratory work includes analysis and criticism. Prerequisite: ThA 102.

ThA 302 Production Methods in Television *3 semester hours*

Emphasizes production of non-dramatic television programming; involves use of camera, sound, music, graphics; explores directorial problems. Includes lab.

ThA 304 History and Principles of Scene Design *3 semester hours*

Studies history and principles of applying decoration to the stage and television; includes working drawings and models of designs. Prerequisite: ThA 204.

ThA 305 History and Principles of Costume Design *4 semester hours*

Explores basic design principles; analyzes designs developed by students; traces the history of costume. One hour of lab is included.

ThA 307 Theory and Practice of Stage Lighting *3 semester hours*

Explores characteristics of stage lighting equipment, elementary theory, pertinent optics, electrical control, and use of light plots. Prerequisite: ThA 104.

ThA 308 History of the Western Theater to the Sixteenth Century *3 semester hours*

Examines the theater and its aesthetics from its earliest beginnings through the Greeks, Romans, and Medieval revival.

ThA 309 History of the Western Theater from 1600 to the Present *3 semester hours*

A continuation of ThA 308 with an examination of developments brought about during the Renaissance and through to contemporary theater. Prerequisite: ThA 308.

ThA 310 History and Aesthetics of the Oriental Theater *3 semester hours*

Places emphasis on Indian and Japanese forms: Kathakali, Bharata Natayam, Kathak, Kabuki, Noh, and Bunraku.

ThA 401 Advanced Directing *4 semester hours*

Explores in detail the creative functions of the director; students are required to direct at least one full-length play. Includes one hour of lab. Prerequisite: ThA 301.

ThA 402 Theater Techniques in Television *4 semester hours*

Adapts theatrical techniques to television rehearsal, production, and direction. Includes one hour of lab. Prerequisite: ThA 202.

ThA 403 Advanced Acting *4 semester hours*

Analyzes styles of acting in period and modern repertoire; students prepare segments of plays for class performance and criticism. Includes one hour of lab. Prerequisite: ThA 103.

ThA 404 Advanced Scene Design *4 semester hours*

Studies requirements of the play that are to be embodied on the stage; creation of the expressive stage environment; Student designs used in major productions. Includes one hour of lab. Prerequisite: ThA 304.

Speech Arts

Sph 101 Fundamentals of Public Speaking *2 semester hours*

Study and application of fundamental principles of effective speaking with stress on the organization and development of material and the use of the voice as a communication tool.

Sph 103 Principles of Discussion *3 semester hours*

Designed to develop effective participation in such discussion as occurs in conferences, committees, and other small groups. Prerequisite: Fundamentals of Public Speaking or equivalent.

Sph 104 Oral Interpretation *3 semester hours*

Designed to develop understanding and appreciation of literature through oral re-creation of literary materials and critical listening. Prerequisites: Sph 101 or 102 and English 101 or consent of instructor.

Sph 105 Voice and Diction *3 semester hours*

Designed to improve and develop articulation, rhythm, and voice. Methods include a study of basic phonetics and the physiology of speech.

Sph 106 Phonetics *3 semester hours*

Involves a detailed study of American speech sounds including their physiological production together with a study of the phonetic symbols of speech.

Sph 201 Public Address *3 semester hours*

An exploration and analysis of rhetorical theory as well as speeches for various occasions. Prerequisite: Fundamentals of Public Speaking or equivalent.

Sph 204 General Semantics *3 semester hours*

An exploration of the role of symbols in communication and of the influence of language upon thought and behavior. Prerequisites: 6 hours of speech.

Sph 304 Advanced Oral Interpretation *3 semester hours*

Advanced work in the oral interpretation of literature with emphasis on the techniques of Reader's Theater. Prerequisite: Sph 104.

Sph 402 Teaching Speech and Theater Arts in the Secondary School *3 semester hours*

Teaching and evaluating speech arts at the secondary level together with an examination of the relationship of speech to the total school program.

Speech Science

SpS 000 Remedial Speech *1 clock hour no credit*

Designed to aid the student in acquiring and maintaining acceptable speech through individualized group work. Students who fail a speech screening test or are recommended by an instructor and the Speech Clinic staff are required to take this course. Both semesters.

SpS 201 Introduction to Speech Problems *3 semester hours*

Examines problems common to school children; explores symptoms, causes, and treatments.

SpS 202 Speech Pathology I *3 semester hours*

Studies the characteristics, etiology, diagnosis, and treatment of disorders of articulation, of stuttering, and of functionally caused delayed speech.

SpS 301 Introduction to Hearing Problems *3 semester hours*

Explores the physiological basis of hearing, types of hearing disorders, techniques of administering and interpreting tests, and methods of assisting the hearing handicapped.

SpS 302 Speech and Language Development *3 semester hours*

Studies theoretical origin of speech in the race and the development of speech in the individual. Emphasis is on normal development.

SpS 303 Clinical Practice *1 to 6 semester hours*

Involves the practical application of theory in the treatment of speech problems under supervision of staff. Prerequisites: Introduction to Speech Problems and/or permission of instructor.

Foreign Language Department

DR. ROBERTS, *Chairman*

Associate Professors: Frieman, Glumac, Gutwirth, Kuhlmann, Lombardi, Rodriguez; Assistant Professors: Collado, Kulhanek, Roseman; Instructors: Brown, Kulaski; Lecturer: Ringold.

French

Fre 101 Elementary French I *3 semester hours*

A study of the fundamentals of French grammar, syntax, and pronunciation. Introduction to French culture through easy reading texts. The audio-lingual method is employed at all times. Work in the language laboratory is required. Both semesters and summer.

Fre 102 Elementary French II *3 semester hours*

A continuation of French 101 with increased emphasis on reading and conversation in French. Language laboratory drill required. Both semesters and summer.

Fre 201 Intermediate French I *3 semester hours*

An intensive review of grammar and syntax. Selected readings in French literature to serve as a basis for class discussion in French and practice in composition. Language laboratory drill assigned for remedial work only. Prerequisite: Fre 102 or equivalent. Both semesters and summer.

Fre 202 Intermediate French II *3 semester hours*

A continuation of French 201 with more extensive practice in composition and conversation. Both semesters and summer.

All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations are required to be written in the foreign language.

Fre 203 Advanced Grammar and Composition *3 semester hours*

A study of the more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more sophisticated and advanced level, with emphasis on correct usage. Prerequisite: Fre 202 or equivalent. Spring semester.

Fre 205 Survey of Literature I *3 semester hours*

A study of the development of French literature from its earliest beginnings to the French Revolution. Prerequisite: Fre 202 or equivalent. Both semesters.

Fre 206 Survey of Literature II *3 semester hours*

A study of the development of French literature from the French Revolution to the present. Prerequisite: Fre 202 or equivalent. Both semesters.

Fre 301 Advanced Language and Techniques *3 semester hours*

An introduction to the problems, methods, and materials involved in the teaching of French. Observation of foreign language classes being taught. Prerequisite: Fre 202 or equivalent. Fall semesters.

Fre 302 General Linguistics *3 semester hours*

Methods of modern linguistic science as applicable to the study and teaching of the major European languages. Principles of structural analysis of living languages and of historical linguistics. Brief survey of the development of Germanic, Romance and Slavic languages and their cross-influences. Spring semesters.

Fre 303 French in the Elementary School *3 semester hours*

A study of the techniques and materials used in teaching French in the elementary school. Practice in the application of these techniques and observation of foreign language classes in the Demonstration School. Prerequisite: Fre 102 or equivalent. Fall semesters.

Fre 304 French Civilization *3 semester hours*

A survey of France's political and educational systems, her economic and religious institutions, and her folkways, along with a consideration of the status of the arts in France today. Prerequisite: Fre 201 or equivalent. Spring semesters.

Fre 401 French Literature of the 18th Century *3 semester hours*

A study of the evolution of the various literary genres in France in the 18th century with particular attention to the works of Voltaire, Rousseau, Montesquieu and Diderot. Prerequisite: Fre 205. Fall semesters of odd years.

Fre 402 French Literature of the 19th Century *3 semester hours*

A study of the development of the various literary movements of the nineteenth century as manifested in the poetry, drama and novel of the period. Prerequisite: Fre 206. Spring semesters of even years.

Fre 403 Contemporary French Literature *3 semester hours*

A study of the works of the outstanding literary figures of the twentieth century and of the various philosophico-esthetic movements which have contributed to their development. Prerequisite: Fre 206. Fall semesters of even years.

Fre 404 French Classical Drama *3 semester hours*

A study of the masterpieces of Corneille, Racine and Moliere. Prerequisite: Fre 205. Spring semesters of odd years.

Junior Year Abroad Program

Fre 361-62: Advanced Grammar and Composition *6 semester hours*

A thorough analysis of the grammatical and syntactical structure of French, followed by extensive practical application in free and controlled composition.

Fre 363-64: Advanced French Conversation *6 semester hours*

Intensive drill in correct usage of contemporary speech patterns. Extensive opportunity for oral self-expression.

Fre 365-66: Phonetics and Translation *6 semester hours*

A thorough study of the sounds of French through the medium of the international phonetic alphabet, and a study of the art of translation. The language laboratory is used extensively for phonetic drill.

Fre 367-68: Contemporary French Civilization *6 semester hours*

A complete survey in depth of the contemporary scene in France today—including social, political and economic life, science and technology, literature and art.

Fre 369-70: Linguistic Studies *6 semester hours*

A stylistic and textual analysis in the manner of the French "Explication de Texte" of selected passages from representative writers.

German

Ger 101 Elementary German I *3 semester hours*

A study of the fundamentals of German grammar, syntax, and pronunciation. Introduction to German culture through easy reading texts. The audio-lingual method is employed and language laboratory drill is required. Both semesters and summer.

Ger 102 Elementary German II *3 semester hours*

A continuation of German 101 with increased emphasis on reading and conversation in German. Language laboratory drill required. Both semesters and summer.

Ger 201 Intermediate German I *3 semester hours*

A review of grammar and syntax. Selected readings in German literature to serve as a basis for class discussion in German and practice in composition. Language laboratory drill required for remedial work only. Prerequisite: Ger 102 or equivalent. Both semesters and summer.

Ger 202 Intermediate German II *3 semester hours*

A continuation of German 201 with more extensive practice in composition and conversation. Both semesters and summer.

All advanced literature and civilization courses include lectures and discussion in the foreign language and all student papers and examinations are required to be written in the foreign language.

Ger 203 Advanced Grammar and Composition *3 semester hours*

A study of the more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more sophisticated and advanced level, with emphasis on correct usage. Prerequisite: Ger 202 or equivalent. Spring semester.

Ger 205 Survey of Literature I *3 semester hours*

A study of the development of German literature and civilization from their earliest beginnings to 1800. Prerequisite: Ger 202 or equivalent. Fall semesters.

Ger 206 Survey of Literature II *3 semester hours*

A study of the development of German literature and civilization from 1800 to the present. Prerequisite: Ger 202 or equivalent. Spring semester.

Ger 301 Advanced Language and Techniques *3 semester hours*

An introduction to the problems, methods and materials involved in the teaching of German. Observation of foreign language classes being taught. Prerequisite: Ger 202 or equivalent. Fall semester.

Ger 302 General Linguistics *3 semester hours*

Methods of modern linguistic science as applicable to the study and teaching of the major European languages. Principles of structural analysis of living languages and of historical linguistics. Brief survey of the development of Germanic, Romance and Slavic languages and their cross-influences. Spring semesters.

Ger 401 The Age of Goethe *3 semester hours*

A study of German literary doctrines and masterpieces of the periods of Enlightenment, Storm and Stress and Classicism. Prerequisite: Ger 202 or equivalent. Fall semesters of odd years.

Ger 402 Contemporary German Literature *3 semester hours*

A study of the works of the principal German writers of the 20th century and of the background of events and ideas which have contributed to their development. Prerequisite: Ger 202 or equivalent. Spring semesters of even years.

Ger 403 The German Short Story *3 semester hours*

A study of the German short story from Romanticism to the present. Prerequisite: Ger 202 or equivalent. Fall semesters of even years.

Ger 404 Goethe *3 semester hours*

A reading and discussion of the important works of Goethe and a study of the author's background and literary development. Prerequisite: Ger 205. Spring semesters of odd years.

Ger 405 Scientific German *3 semester hours*

Review of syntax, reading and translation in general science and basic technical fields. Prerequisite: Ger 102 or equivalent. Fall semesters of odd years.

Ger 406 German Civilization *3 semester hours*

A study of the evolution of Germany's social, political and economic institutions. An analysis of the major contributions of German civilization to Western culture. Spring semesters of even years.

Greek

Gre 101 Beginning Greek I *3 semester hours*

For students who have had no previous Greek. Forms, syntax, and idioms of Homeric Greek. Fall semesters.

Gre 102 Beginning Greek II *3 semester hours*

A continuation of Greek 101. The reading of Homer's *Iliad,* Book I, followed by an introduction to Attic Greek. Records and tapes in Greek are used to supplement class work. Spring semesters.

Gre 201 Intermediate Greek I *3 semester hours*

A review of Attic grammar and readings in Attic authors. An introduction to the *koine* and readings in New Testament Greek. Fall semesters.

Gre 202 Intermediate Greek II *3 semester hours*

An introduction to Greek Tragedy. Sophocles' *Antigone* and Euripides' *Medea* are read and analyzed. Spring semesters.

Italian

Ita 101 Elementary Italian I *3 semester hours*

An introduction, through the audio-lingual method, to the sounds of Italian. Thorough and intensive drill, both in class and in the language laboratory, with pronunciation, intonation and basic linguistic patterns. Introduction to Italian culture by means of basic dialogues and easy reading texts. Fall semesters.

Ita 102 Elementary Italian II *3 semester hours*

A continuation of Elementary Italian I with greater emphasis on structural analysis. Spring semesters.

Ita 201 Intermediate Italian I *3 semester hours*

A thorough review of Italian grammar and syntax. Introduction to Italian literature through short readings of intermediate difficulty. Composition and conversation in Italian based on reading assignments. Language laboratory for remedial drill. Fall semesters.

Ita 202 Intermediate Italian II *3 semester hours*

A continuation of Intermediate Italian I with increased emphasis on free composition and conversation. Spring semesters.

Latin

Lat 101 Beginning Latin I *3 semester hours*

For students who have had no previous Latin. Forms, syntax, and idioms of classical Latin. Selected readings. Fall semesters.

Lat 102 Beginning Latin II *3 semester hours*

A continuation of Latin 101. Records and tapes in Latin are used to supplement class work. Spring semesters.

Lat 201 Cicero *3 semester hours*

Prerequisite: Latin 101-102, or two years of secondary school Latin. Selections from the orations, letters, and essays. Fall semesters.

Lat 202 Virgil *3 semester hours*

Prerequisite: Latin 201, or three years of secondary school Latin. Reading and analysis of celebrated portions of the *Aeneid* and a study of the nature of Latin epic poetry. Spring semesters.

Prerequisite to courses 301-405: Latin 202, or four years of secondary school Latin.

Lat 301 Advanced Language and Techniques *3 semester hours*

An introduction to the problems, methods, and materials involved in the teaching of Latin. Fall semesters.

Lat 302 The Lyric Poets *3 semester hours*

A study of Latin lyric poetry through readings in Catullus and the Odes and Epodes of Horace. Practice in the composition of lyric poetry.

Lat 303 Advanced Latin Prose Composition *3 semester hours*

Required of Latin majors; open to other students accepted by the instructor. A study of the complex syntactical structures of Latin and of classical style. Translations of English prose into classical Latin.

Lat 304 The Elegiac Poets *3 semester hours*

A study of Latin elegiac poetry through readings in Ovid, Tibullus, Lygdamas, Sulpicia, and Propertius. Practice in the composition of elegiac poetry.

Lat 305 Reading Course *3 semester hours*

Open to Latin majors only. Area and content to be determined by students' needs.

Lat 306 Roman Historians *3 semester hours*

An introduction to Roman historiography. Readings in Livy, Sallust, and Tacitus.

Lat 401 Roman Drama *3 semester hours*

A study of the origins and development of Roman drama. Selected plays of Plautus, Terence, and Seneca.

Lat 402 Roman Philosophy *3 semester hours*

An introduction to Greek and Roman philosophy. Readings in Cicero, *Tusculan Disputations,* and Lucretius, *De Rerum Natura.* Cicero presents mainly the Platonic view; Lucretius argues in epic verse for Epicurus' creed.

Lat 403 Roman Satire *3 semester hours*

A study in the origins and development of Roman satire. Readings in Horace, Persius, and Juvenal.

Lat 404 The Latin Novel *3 semester hours*

Readings in Petronius, *Satyricon,* and Apuleius, *The Golden Ass.* Lectures and discussion of the emergence of the novel as a literary form.

Lat 405 Medieval Latin *3 semester hours*

Studies in the varieties of prose and poetry from the fourth to the seventeenth centuries.

Lat 406 Tutorial Course *3 semester hours*

Required of majors in Latin or Classics; open to other students accepted by the instructor. An introduction to the history of the alphabet; the principles of historical and comparative linguistics, especially as applied to Greek and Latin; and the history of the Latin language as seen in ancient authors and inscriptions.

Russian

Rus 101 Beginning Russian I *3 semester hours*

A study of the fundamentals of Russian grammar, syntax and pronunciation. Extensive drill in the language laboratory is required. One class hour per week in the language laboratory. Fall semesters.

Rus 102 Beginning Russian II *3 semester hours*

A continuation of Russian 101 with increased emphasis on reading and conversation in Russian. One class hour per week conducted in the language laboratory. Spring semesters.

Rus 201 Intermediate Russian I *3 semester hours*

A grammar review with selected readings in Russian literature to serve as a basis for class discussion in Russian and practice in composition. Language laboratory drill recommended for those needing further work in pronunciation and intonation. Prerequisite: Rus 102 or the equivalent. Fall semesters.

Rus 202 Intermediate Russian II *3 semester hours*

A continuation of Russian 201 with more extensive practice in composition and conversation. Spring semesters.

All advanced literature and civilization courses include lectures and discussion in the foreign language and all student papers and examinations are required to be written in the foreign language.

Rus 203 Advanced Grammar and Composition *3 semester hours*

A study of the more complex grammatical and syntactical structure of the language, with particular attention to stylistics. Practice in writing compositions on a more sophisticated and advanced level, with emphasis on correct usage. Prerequisite: Rus 202 or equivalent. Spring semesters.

Rus 205 Advanced Readings in Russian Literature *3 semester hours*

A study of selected masterpieces of Russian literature. Works of Pushkin, Lermontov, Turgenev and Gorki will be read and analyzed. Prerequisite: Rus 202 or the equivalent. Fall semesters.

Rus 206 Advanced Readings II *3 semester hours*

A continuation of Russian 205. Spring semesters.

Rus 301 Advanced Language and Techniques *3 semester hours*

An introduction to the problems, methods, and materials involved in the teaching of Russian. Prerequisite: Rus 202 or equivalent. Fall semesters.

Rus 302 General Linguistics *3 semester hours*

Methods of modern linguistic science as applicable to the study and teaching of the major European languages. Principles of structural analysis of living languages and of historical linguistics. Brief survey of the development of Germanic, Romance and Slavic languages and their cross-influences. Spring semesters.

Rus 303 Scientific Russian I *3 semester hours*

A review of syntax; reading and translation in general science and basic technical fields. Prerequisite: Rus 202 or equivalent. Fall semesters of odd years.

Rus 304 Scientific Russian II *3 semester hours*

A continuation of Scientific Russian I. Spring semesters of even years.

Rus 401 The Russian Novel *3 semester hours*

A study of the masterpieces of the Russian novel and literary trends of the 19th and 20th centuries. Prerequisite: Rus 205 or equivalent. Fall semesters of even years.

Rus 402 The Russian Drama *3 semester hours*

A study of the works of the major Russian dramatists of the 19th and 20th centuries. Prerequisite: Rus 205 or equivalent. Spring semesters of odd years.

Spanish

Spa 101 Elementary Spanish I *3 semester hours*

A study of the fundamentals of Spanish grammar, syntax and pronunciation from the oral-aural point of view. Introduction to Spanish culture through easy reading texts. One class a week conducted in the language laboratory for work on pattern drills. Both semesters and summers.

Spa 102 Elementary Spanish II *3 semester hours*

A continuation of Spanish 101 with emphasis on reading and conversation in Spanish with the aim of increasing oral-aural skills in the language. Language laboratory class once a week. Both semesters and summers.

Spa 201 Intermediate Spanish I *3 semester hours*

A review of Spanish grammar and syntax. Selected readings in Spanish literature to serve as a basis for class discussion in Spanish and practice in composition. Language laboratory drill recommended for remedial work where needed. Prerequisite: Spa 102 or equivalent. Both semesters and summers.

Spa 202 Intermediate Spanish II *3 semester hours*

A continuation of Spanish 201 with extensive practice in composition and conversation on a more advanced level. Both semesters and summers.

All advanced literature and civilization courses include lectures and discussion in the foreign language and all student papers and examinations are required to be written in the foreign language.

Spa 203 Advanced Grammar and Composition *3 semester hours*

A study of the more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more sophisticated and advanced level, with emphasis on correct usage. Prerequisite: Spa 202 or equivalent. Spring semesters.

Spa 205 Survey of Literature (Golden Age) *3 semester hours*

A study of the masterpieces of Spanish literature from its earliest beginnings to the 18th century with special emphasis on the literature of the Golden Age. Prerequisite: Spa 202 or equivalent. Both semesters.

Spa 206 Survey of Literature (Since 1800) *3 semester hours*

A study of the masterpieces of Spanish literature from 1800 to the present. Prerequisite: Spa 202 or equivalent. Both semesters.

Spa 301 Advanced Language and Techniques *3 semester hours*

An introduction to the problems, methods and materials involved in the teaching of Spanish. Observation of foreign language classes being taught. Prerequisite: Spa 202 or equivalent. Fall semesters.

Spa 302 General Linguistics *3 semester hours*

Methods of modern linguistic science as applicable to the study and teaching of the major European languages. Principles of structural analysis of living languages and of historical linguistics. Brief survey of the development of Germanic, Romance and Slavic languages and their cross-influences. Spring semesters.

Spa 303 Spanish in the Elementary School *3 semester hours*

A study of the techniques and materials used in teaching Spanish in the elementary school. Practice in the application of these techniques and observation of foreign language classes in the Demonstration School. Prerequisite: Spa 102 or equivalent. Fall semesters.

Spa 304 Spanish Civilization *3 semester hours*

A survey of the major contributions of Spain from an eclectic point of view. Cultural, geographical, literary, philosophical and artistic manifestations of the Hispanic world are studied, appreciated, and evaluated. Prerequisite: Spa 201 or equivalent. Spring semesters.

Spa 401 Spanish-American Literature *3 semester hours*

An examination of the masterpieces of Spanish-American Literature and of the present trends in Spanish-American literary expression. Prerequisite: Spa 202 or equivalent. Fall semesters of odd years.

Spa 402 Contemporary Spanish Literature *3 semester hours*

A study of the masterpieces of contemporary Spanish literature against the background of 20th century literary trends. Prerequisite: Spa 202 or equivalent. Spring semesters of even years.

Spa 403 The Spanish "Comedia" *3 semester hours*

The Spanish "Comedia," with the major trends and streams of development during the Spanish Golden Age. Prerequisite: Spa 205. Fall semesters of even years.

Spa 404 The Picaresque Novel *3 semester hours*

The Picaresque novel as a uniquely Spanish genre: Lazarillo de Tormes, Guzman de Alfarache and others. Prerequisite: Spa 205. Spring semesters of odd years.

Geography Department

DR. KEINARD, *Chairman*

Professor: Langdon; Associate Professors: Hawthorne, Bielski; Assistant Professors: Monroe, Thompson; Lecturers: McGroerty, Morrow.

Geo 101 World Geography *3 semester hours*

A course to develop a knowledge and appreciation of patterns of the natural environment throughout the world such as patterns of climate, soil, vegetation, and man's adjustment to them, with special emphasis upon man's economic and cultural responses. Both semesters and summer session.

Geo 201 Conservation of Natural Resources *3 semester hours*

A course dealing with the present problems in the conservation of our natural resources of land, water, plants, animal life, and mineral deposits, ways of solving these problems, and the wise use of these resources. Field trips are required. Fall semester even years and summer sessions.

Geo 202 Geography of United States and Canada *3 semester hours*

A regional study of the United States and Canada relative tc man's adjustments to his environment as determined by the physical factors of climate, vegetation, relief, and soils. Recognition of the political adjustments to the geographic environments and the interrelations between the two countries and the rest of the world. Prerequisite: World Geography. Each semester and summer session.

Geo 203 Economic Geography *3 semester hours*

The increasing competition for the world's goods in relation to the growing world population and changing political climate of certain areas is discussed. The course also deals with modern trends and problems associated with the economic growth of the United States. Every effort is made to keep up with the changing wants and needs of man in regard to agriculture, industry, and world resources. Each semester and summer sessions.

Geo 204 Geography of Pennsylvania *3 semester hours*

A regional study of Pennsylvania, emphasizing man's cultural and economic responses to environmental factors. Special attention is given to the resources of the state, analyzing their extent, their use, and need for their conservation and regional planning. Spring semesters and summer sessions.

Geo 205 Geomorphology *3 semester hours*

The course involves the study of the dynamic tectonic and gradational forces, which in conjunction with the climatic and biologic forces have shaped the earth into its present form and are constantly reshaping and modifying it. The constructive forces of vulcanism and diastrophism and the activities of weathering and erosion in the formation of the surface features of the earth are considered. The interpretation of geologic and topographic maps, as well as field studies, are an important part of the course. Field trips are required. Prerequisite: World Geography. Fall semesters.

Geo 206 Meteorology: An Introduction to Climate *3 semester hours*

Meteorology is a study of the atmosphere. This course analyzes the laws and underlying principles of atmospheric changes. An opportunity is given for students to become familiar with common weather instruments, to read and interpret weather maps, to observe and record weather data, and discuss problems rising from the use of the atmosphere as a medium of travel and transportation. Prerequisite: World Geography. Spring semester.

Geo 207 Geography of Europe *3 semester hours*

A course which aims to help students acquire an ability to look for, find, and apply the geographic relationships underlying land uses, dominant international problems, and boundary disputes, thus enabling students to obtain an unbiased understanding of the economic problems of Europe. The Soviet Union is not included in this course. Prerequisite: World Geography. Fall semesters and summer sessions.

Geo 208 Geography of Latin America *3 semester hours*

A regional study is made of Middle and South America, emphasizing man's responses to environmental factors such as climate, landforms, resources and the like. Special emphasis is given to regional differences and similarities. Latin American relations with other nations, especially with the United States, are stressed. Prerequisite: World Geography. Fall semester and summer sessions.

Geo 209 The United States in its Global Relationships
3 semester hours

This course deals with the changing economic patterns within the United States that are developing to meet the new economic and strategic situations in the rest of the world. The geography of the United States will be analyzed in its world relations with emphasis on our interdependence with the world of nations, both politically and economically. Prerequisite: World Geography.

Geo 210 Geographic Influences in American History
3 semester hours

A study of the relationships of the natural geographic factors in the settlement, development and progress of the United States from the time of discovery to its present day position as a world power. Major emphasis is placed upon the United States, although parts of the course such as the study of World War II and our present worldwide interests and commitments of necessity focus attention on areas other than the U. S. Prerequisite: World Geography. Fall semesters and summer sessions.

Geo 211 Map Appreciation and Interpretation
3 semester hours

A course which aims to provide the student with an understanding of the properties of maps such as scale, projection, coordinates, legend, and other marginal information. Special emphasis will be directed toward the reading and interpretation of large-scale topographic maps. This includes the recognition of natural features and land uses. The course also includes an introduction to statistical maps showing amount, value, or density of distribution using dots, lines, and colors. Fall semesters and summer sessions.

Geo 300 Physical Geography *3 semester hours*

The basic concepts of physical geography are studied in relation to the total geographic concept. The operations of fundamental earth-sun relationships, land masses, oceans, landforms, weather and climate and natural resources are explained as elements and controls related to the adjustments man makes to his environment. The course is designed to help elementary teachers present a more integrated physical-cultural geography program. Spring semesters and summer sessions.

Geo 301 Introduction to Geology *3 semester hours*

A course dealing with landscapes in their relation to the structure of the earth's crust, and the work of earth forces and their effects on materials, structure, and physiography of the earth's surface features. Course work includes field work, study of rocks, minerals, and topographic maps. Field trips are required.

Geo 302 Climatology *3 semester hours*

A course primarily concerned with the climatic regions of the earth, and the limitations and advantages they offer for man's occupancy. The course is a valuable aid to students in world problems. Prerequisite: World Geography. Spring semesters of even years.

Geo 303 Cartography *3 semester hours*

A course designed primarily to enable the geography major to attain proficiency in the construction and use of maps, cartograms, and geographic diagrams. The history of map making with special emphasis on the modern techniques followed in the United States will be presented. Special emphasis will be placed upon the development of the special-purpose or thematic map as a tool in teaching and research. This emphasis requires proper instruction in the use of pens, lettering templates, pre-printed patterns and letters, and other techniques utilized in map construction. Spring semesters.

Geo 304 Geography of Asia *3 semester hours*

This course starts with an over-view of Asia in regard to climate, topography, soils, people, and other such basic geographic factors. Emphasis is placed on major geographic regions of Asiatic U. S. S. R., Southwestern Asia, and India. Studies are made of the natural resources and their use, the peoples—their number and distribution, their cultural and recent cultural changes, strategic areas, and related political problems. Prerequisite: World Geography.

Geo 305 Geography of the Far East *3 semester hours*

A study of Japan, China, the Philippines, Southeastern Asia, and the East Indies and an intensive investigation of the natural factors and man's adjustment to them in the geographic, economic, and political regions of Eastern Asia. The geographic background needed in planning solutions for raising standards of living, for the wise use and restoration of natural resources, and the industrialization of countries is presented. Prerequisite: World Geography.

Geo 306 Geography of Africa *3 semester hours*

The study emphasizes the geographic factors that aid in a better understanding of the problems that face Africa today. Geographic aspects of past and present day history are discussed, as well as the aspects of race, religions, and tribal organizations. The climate, topography, agriculture and minerals of Africa are discussed as well as other important features related to geography. Prerequisite: World Geography.

Geo 307 Geography of the U.S.S.R. (Including Satellite Countries) *3 semester hours*

This course will include a study of both European and Asiatic U. S. S. R., with emphasis on the positive and negative factors in the geography of that country in relation to its strength and weaknesses as a major world power. Fall semester and summer sessions. Prerequisite: World Geography.

Geo 308 Trade and Transportation *3 semester hours*

A study of transportation routes, ports, railroad centers, air terminals and hinterlands. The concept that trade and transportation are important geographic elements will be developed in the course. These two elements are spatial variables by which regions can be delimited and their characteristics studied. Emphasis will be given to nations which organize themselves into economic blocs for the promotion of trade. Prerequisite: World Geography.

Geo 309 World Problems in Geography *3 semester hours*

A course considering some of the world problems which need a geographic background for understanding and solution. Attention is given to boundary questions, the value and control of colonies, fishery agreements, problems concerning commercial aviation, world trade, the feeding of the world, control and development of natural resources, the keeping of the peace, and similar topics. Prerequisite: World Geography.

Geo 310 Geography Field Study Methods *3 semester hours*

This is a basic field course designed to introduce the undergraduate student to methods and materials used in field research in geography. Study observations include those related to land use, urban geography, transportation, conservation of natural resources, etc. Observations are recorded on base maps and field notes are assembled into geographical reports. Field trips are required. Prerequisite: World Geography.

Geo 311 Teaching Geography in Secondary Schools *3 semester hours*

An intensive study of the modern techniques of teaching geography, geography materials, and current curricula in geography. Emphasis is placed upon the contribution of geography to the solving of national and world problems; the skills, habits, and the attitudes to be gained from geography courses in the junior and senior high schools which aid in the development of world citizenship, the courses suitable for such groups, and the new books available at this level. Spring semester.

Geo 313 Geography of Population *3 semester hours*

A course designed to give the student a greater understanding of the regional variations in the distribution of man. Emphasis will be given to population numbers, past and present, to the demographic characteristics of the population, and to the migration of populations. An explanation of the spatial shapes of these population numbers and characteristics is included in the course. Spatial differences in population are related to spatial differences in non-demographic phenomena. Prerequisite: World Geography.

Geo 314 Geography of the United States and Pennsylvania *3 semester hours*

A comprehensive treatment of the adjustment of the people of Pennsylvania and the United States to the physical factors—structure, relief, climate, vegetation, soils, and natural resources—which help to explain the distribution of population, land use, products, and trade within the United States and with other parts of the world. Prerequisite: World Geography.

Geo 412 Geography of Australia and Associated Islands *3 semester hours*

Emphasis is placed on the natural factors of climate, location, minerals and topography and their relationships to the numbers and distribution of the population. Special note is taken of the native and introduced flora and fauna found in these regions as well as the importance and effect of the growing industrialization of Australia. Farming, transportation and the geo-politics of this region are also discussed. Prerequisite: World Geography.

Geo 414 Urban and Regional Planning *3 semester hours*

This course examines the regional method of analysis as it applies to the problems of urban and regional planning. Since urbanism dominates western civilizations today, special emphasis is directed to city planning in terms of providing adequate transportation, housing, recreation, industry, and commerce. Integration of the natural resources and the human resources is demonstrated as the means to provide an orderly use of space by man. This integration involves the designing of new urban areas as well as redesigning older urban areas. Prerequisite: World Geography.

Geo 415 Geography Area Field Study *3, 6, or 9 semester hours*

Field courses are arranged from time to time for travel and study in selected areas. These areas may include regions of the United States or foreign countries. Emphasis will include major geographical observations as outlined for Geography 310 and applied to the specific area of the course. Field study findings will be analyzed and compiled into term reports. Costs will vary with each course offering. Admission to course is by departmental approval.

Geo 416 Geography Seminar *3 semester hours*

This seminar is designed to acquaint geography majors with various aspects of geography not normally covered in the regular courses. The seminar will include the study of geographical literature, the development of modern geographical thought, methods and materials used in geographic research, and experience in geographical writing. Enrollment by departmental approval.

Health and Physical Education Department

DR. YOUMANS, *Chairman of the Departmental Executive Committee*

Members of the Committee: Coates, Cochran, Davis, Norris

Professors: Cochran, Cottrell, Mitten, Sturzebecker; Associate Professors: Coates, Davis, Donley, Goodwin, Heim, Kolacki, Lemcke, Long, Lorback, Margerum, Norris, Reed, Taylor, Yanisch, Yoder, Young; Assistant Professors: Blair, Butler, Funk, Furlow, Greenwood, Hopkins, Le Veau, Schaub, Smith, Steinmetz, Trnka, Wilkinson, Wintermute; Instructors: Bookspan, Cooper, Dunn, Forsyth, Giunta, Gros, Leighton, Weber; Lecturers: Hershey, McCreary, White.

Theory and Applied Physical Education

Required for Health and Physical Education Majors

HEd 211 Preparation for Teaching Elementary Physical Education *3 hours 1 credit*

Preparation for teaching of elementary physical education: singing games, story plays, self testing activities, teaching of elementary games: a unit on playground apparatus and specific stunts on apparatus and tumbling. Suitable methods for teaching all these things at the elementary level are presented.

HEd 261 History and Philosophy of Physical Education *2 hours 2 credits*

A study of the changing concepts of physical education of many past ages and cultures so as to provide a foundation for the philosophy, principles, curriculum, organization and administration, methods, and trends of modern physical education.

HEd 311 Preparation for Teaching Secondary Physical Education *3 hours 1 credit*

Preparation for teaching secondary physical education programs. Class practice teaching of games, athletics, sports, and gymnastic-type activities. Development of activity lesson plans suitable for grades 7-12.

HEd 351 Human Development *3 hours 3 credits*

Designed to help students understand growth from birth through adolescence, this course includes methods of studying pupils, influences on growth, and characteristic development at various age levels. Implications for the health and physical education program are stressed throughout.

HEd 361 Tests, Measurements and Statistics in Health and Physical Education *3 hours 3 credits*

Experience in selecting, administering, scoring and evaluating tests of physical fitness, general motor ability, motor educability, and skill and knowledge in sports.

HEd 362 Physical Education for the Elementary Grades *7 hours 3 credits*

The students will be assigned to elementary schools in the service area for observation and teaching in physical education. This will involve all the games and relays, self testing activities, rhythms and dances suitable for the growth and developmental needs of the elementary school child. A weekly seminar will be held to discuss the theory and problems involved in elementary physical education.

HEd 364 Organization and Administration of Physical Education *3 hours 2 credits*

Principles of program building in physical education curricular and extra-curricular; facilities and equipment, routine procedures, budget and finance, legal liability and public relations. Prerequisite: Tests, Measurements and Statistics in Health and Physical Education.

HEd 365 Physical Activities for Atypical Children I *2 hours 2 credits*

An introductory course in Adapted Physical Education that is devoted to the exploration of common childhood disabilities. Emphasis will be placed on those problems that are of a chronic nature and their implications for the physical educator. The elements of administration of the adapted program will be discussed.

HEd 455 Applied Physiology *2 hours 2 credits*

A functional course applying physiological principles of neuromuscular activity to the frame of reference of the physical educator. A clinical approach will be taken to acquaint the student with basic aspects of theories of neuromuscular coordination and motor learning, strength development, endurance, and the analysis of human motion. Prerequisites: Anatomy and Physiology.

HEd 461 Physical Activities for Atypical Children II
2 hours 2 credits

A course concerned with the modern concepts of the therapeutic exercise phase of physical education in the prevention and correction of common handicapping conditions.

HEd 462 Principles of Recreation *2 hours 2 credits*

Historical background of the present play movement; theoretical explanations of play; the need for play in modern life and its place in education and recreation; the fundamental principles and methods of recreation leadership.

HEd 463 Principles of Coaching *2 hours 2 credits*

Principles and methods of coaching sports in the school program; problems of the coach with regard to psychology of handling a team, training, motivation and schedule planning; bridging the gap between knowing how to play and the functions of coaching.

HEd 471 Student Teaching in the Secondary School and Direction of Student Activities (including Practicum)
30 hours 12 credits

Observation and participation in teaching situations in the junior and senior high school under qualified cooperating teachers. Professional conferences and visitations are provided throughout this teaching semester which may be taken in the fall or spring term of the academic year depending upon administrative planning.

Skills and Activities Courses

Required for Health and Physical Education Majors

Women

HEd 111 Soccer, Speedball, and Basketball *3 hours 1 credit*

Foundations course stressing fundamental skills in basketball; individual skills, team tactics, and officiating techniques in soccer and speedball.

HEd 112 Gymnastic and Fundamental Exercises
3 hours 1 credit

Apparatus skills for beginners, with stunts, tumbling, and pyramids for different age levels.

HEd 121 Lacrosse and Track and Field *3 hours 1 credit*

Foundations course stressing fundamental skills in lacrosse and track and field.

HEd 122 Hockey and Volleyball *3 hours 1 credit*

Foundations course stressing fundamental skills in field hockey; individual skills, team tactics, and officiating techniques in volleyball.

HEd 131 Aquatic Fundamentals *3 hours 1 credit*

An analysis is made of the basic principles involved in swimming for all ages and ability levels. Emphasis is placed on safe practices as well as various methods of instruction and techniques. Class organization and the use of teaching devices are presented and explained. Application of the basic principles is made throughout the course during the progression of all skills.

The organization and administration of competitive swimming for women, with the modifications and changes necessary in the basic skills, are studied and analyzed.

HEd 132 Life Saving and Water Safety *3 hours 1 credit*

Continued emphasis is placed on the basic principles and skills in swimming. Safety and survival techniques are analyzed and learned. Life saving practices are emphasized and performed. Perfection of life saving skills and knowledge in swimming may enable the student to receive senior life saving certification by the American Red Cross. Synchronized swimming, stunts, formations, and routines are also studied.

HEd 212 Advanced Gymnastics *3 hours 1 credit*

Advanced apparatus, tumbling, pyramids, rhythmical exercises.

HEd 221 Advanced Hockey, Lacrosse, Track and Field *3 hours 1 credit*

Advanced fundamentals and team tactics in hockey, lacrosse, and track and field.

HEd 222 Basketball and Tennis *3 hours 1 credit*

Advanced fundamentals and team tactics in basketball; fundamental skills in tennis.

HEd 322 Organization and Administration of Intramural and Interscholastic Athletics *2 hours 1 credit*

Principles of organization, administration, and supervision of intramural and secondary school athletic programs. Instruction to include facilities and equipment, routine procedures, budget and finance, legal liability, scheduling, and public relations.

HEd 323 Tennis, Softball; Basic Officiating of Hockey and Basketball *3 hours 1 credit*

Advanced strategy, individual skills, and officiating techniques in tennis. Techniques and team tactics in softball. Basic officiating techniques and practical experience in hockey and basketball.

HEd 324 Badminton, Golf, and Archery *3 hours 1 credit*

Development of individual skills in archery, golf, and badminton.

HEd 341 Modern Dance I *2 hours 1 credit*

This course is designed to prepare teachers in all elements of modern dance activities employed in the public school program. The student is thoroughly grounded in fundamentals and teaching techniques of modern dance on the elementary and secondary levels.

Men

HEd 111 Introduction to Formal Gymnasium Activities *3 hours 1 credit*

An introductory course in fundamentals of marching, gymnastic exercises, games, weight and circuit training, rope climbing, Indian clubs, wands, etc.

HEd 112 Introduction to Tumbling and Vaulting *3 hours 1 credit*

An introduction to the basics of tumbling and vaulting, including trampoline and springboard.

HEd 121 Individual Sports for Men *3 hours 1 credit*

Emphasis is placed on individual sports and recreational activities which include: tennis, golf, volleyball, softball, tetherball, table tennis, handball, winter sports.

HEd 122 Soccer and Wrestling *3 hours 1 credit*

A functional approach to the teaching of soccer and wrestling with emphasis on units of instruction for the elementary, junior high, and senior high levels. The course will include lead-up games, related activities, fundamental skills and techniques, drills, and basic experience in cohesive team effort. Stress will be placed on techniques, progression, and instructional problems.

HEd 131 Aquatic Fundamentals *3 hours 1 credit*

Diagnosis, study, and practice of the basic swimming strokes; introduction to diving and competitive swimming; study of speed swimming strokes, racing starts, turns, and relay races; floating and endurance swimming, aquatic games, races, stunts, and exhibitions; introduction to recreational aquatics and synchronized swimming formation.

HEd 132 Life Saving and Water Safety *3 hours 1 credit*

The philosophy of life saving and the responsibility of guarding the lives of bathers and swimmers; diagnosis, study, and practice of the life saving skills and techniques; discussion of floating supports, canoeing, boating, use of the paddle board, and planning and supervision of waterfront activities in recreation programs. Successful completion of this course may enable the student to receive senior life saving certification by the American Red Cross.

HEd 212 Introduction to Heavy Apparatus *3 hours 1 credit*

Fundamentals of movement on apparatus including rings, parallel bars, horizontal bars, side horse, and floor exercises.

HEd 221 Football and Track and Field *3 hours 1 credit*

A functional approach to the teaching of football and track and field with emphasis on units of instruction for the elementary, junior high, and secondary levels. The course will include lead-up games, related activities, fundamental skills and techniques, drills and basic experience in cohesive team effort. Stress will be placed on techniques, progression, and instructional problems.

HEd 222 Basketball and Baseball *3 hours 1 credit*

A functional approach to the teaching of basketball and baseball with emphasis on units of instruction for the elementary, junior high, and secondary levels. The course will include lead-up games, related activities, fundamental skills and techniques, drills and basic experience in cohesive team effort. Stress will be placed on techniques, progression, and instructional problems.

HEd 322 Organization and Administration of Intramural and Interscholastic Athletics *2 hours 1 credit*

Principles of organization, administration, and supervision of intramural and secondary school athletic programs. Instruction to include facilities and equipment, routine procedures, budget and finance, legal liability, scheduling, and public relations.

HEd 323 Advanced Basketball, Football, Soccer Track and Field *3 hours 1 credit*

HEd 324 Advanced Baseball, Golf and Tennis, Gymnastics, and Wrestling *3 hours 1 credit*

In the above courses (HEd 323 and HEd 324) each student will select two from the four offered. A nine week concentration of instruction in each selection would include a theoretical and practical approach to the teaching of these activities for advanced levels of performance, i.e. exhibitions, extramurals, and interschool sports and athletic events. The course will present the unique physiological requirements specific to each activity and techniques of development; review of fundamentals; refined drills; analysis of individual positions; game situations; strategy and tactics including development of offensive and defensive patterns and play. Rules, scoring, and officiating, and scouting procedures will also be included. When appropriate, brief internship programs of observation and participation as student assistants will be recommended in conjunction with HEd 463, Principles of Coaching.

Health Courses

Required for Health and Physical Education Majors

HEd 151 Personal Hygiene *3 hours 3 credits*

This course is designed to help students acquire a background of scientific health knowledges and develop an interest in modern scientific health developments in the field of personal health; to establish high standards of personal living and develop desirable attitudes toward healthful living through the study of principles and practices of personal health.

HEd 153 Community Health *2 hours 2 credits*

This course will acquaint the student with a broad general understanding of the principles and problems of community health as they apply to everyday living. Included will be an overview of community health programs, their scope, organizations, functions, and services on the local, state, national, and international levels.

HEd 252 First Aid and Care and Prevention of Athletic Injuries *3 hours 2 credits*

This course will prepare a student to administer first aid in case of an accident or sudden illness in the normal school situation and also to exercise specific injury preventative measures and care for injured during sports activities.

HEd 253 The School Health Program *3 hours 2 credits*

This course is designed to help students understand the aspects of the total school health program: school health services (including health observation, appraisal, guidance, sources of referral, etc.), healthful school environment, and health instruction. Interrelationships and effective ways of promoting school-community cooperation and coordination will be included.

HEd 352 Methods and Materials in Health Education
3 hours 2 credits

A comprehensive study of school health instruction. Content will be emphasized as to methods and materials necessary for effective health education. Course experiences include construction of lesson plans, units, survey and evaluation of textbooks, tradebooks, free materials, periodicals, experiments, audiovisual aids, and evaluative techniques, and teaching aids. Students will complete files of curriculum materials and instructional aids as a prerequisite to student teaching.

Dance Courses

Required for Health and Physical Education Majors

HEd 241 Elementary Rhythms and Folk Dancing
3 hours 1 credit

A study of the place of dancing and rhythmical activities in the school physical education program with particular emphasis on clog, tap, and elementary folk dancing. The course includes a study of the fundamentals of movement, music and rhythm and their relationship to each other; child rhythms, and folk dances suitable for elementary school children; suggested teaching methods.

HEd 242 Social and Square Dancing *3 hours 1 credit*

Co-recreational activities will be emphasized in this course which includes square and country dancing, advanced folk and social dancing. In addition to the development of personal skills, the course also incorporates methods of teaching and source materials for dance programs.

HEd 341 Modern Dance I (Required for Major Women)
2 hours 1 credit

This course is designed to prepare teachers in all elements of Modern Dance Activities that are employed in the Public School Program. The student is thoroughly grounded in fundamentals and teaching techniques of Modern Dance on the Elementary and Secondary levels. Opportunity for creative work is provided.

Skills and Activities Courses Required for Non-Major Students

Required for All Curriculums

HEd 101 Survey of Physical Education I *2 hours 1 credit*

This course is designed to give the student an overview of physical education. It includes activities, such as tennis, badminton, and volleyball, which have carry-over value. There are also experiences in athletic-type games contemporaneous with college-age levels. In addition, current methods of physical conditioning, training, and weight control are examined.

Required for Secondary Education and Liberal Arts and Sciences Majors

HEd 102 Survey of Physical Education II *2 hours 1 credit*

This course provides experience in co-educational activities in the areas of dance and aquatics. The section of dance is a survey of square and country dancing, advanced folk dancing, and social dancing. Attention is given to body control and movement. The aquatic experience consists of basic and advanced instruction and stresses water safety.

Required for Music Majors

HEd 107 Eurythmics *2 hours 1 credit*

The development of an appreciation of rhythmic movement patterns through specific dance forms: Polka, Schottische, Waltz, Mazurka, Pavanne, Polonaise, Sarabande, Bouree, Gavotte, Minuet. Opportunities will be provided for the application of the principles of eurythmics in teaching music to children through both the planning and teaching of typical elementary school units; such as, Folk Festivals, Circuses, May Days, Indians, Transportation, Work and Occupations, Special Holidays. Some swimming activities are included.

Required for Elementary Majors

HEd 201 Practice and Theory in Elementary Physical Education *2 hours 1 credit*

The basic organization of the physical education program in the modern elementary schools is reviewed. Basic principles in teaching children how to play simple games and relays and those other recreational activities that are associated with this age group. Opportunities for lesson planning and teaching are provided for in a practical manner. The ability to plan for and direct the physical education period in the elementary school program will be a main objective for each student.

HEd 202 Dance Activities in the Elementary Program *2 hours 1 credit*

The place of fundamental rhythms, creative rhythms, singing games, and folk dances on the elementary level will challenge the student. Personal skills in these areas will develop and each student will assume the leadership in directing these activities in class situations. The use of dancing activities for demonstrations and pageants will be studied.

Health Courses

Required for Non-Major Students

Required for All Curriculums

HEd 150 Health *2 hours 2 credits*

A course designed as an integrative experience in personal health education. The primary areas include: mental and emotional adjustment to the college environment, family relationships, factors influencing physiological health, and the college student as an intelligent appraiser of health practices and fads.

Required for Elementary Education Majors

HEd 350 Health for the Elementary Grades *3 hours 3 credits*

A course based upon the premise that health education is not a subject but rather a way of living. Special emphasis placed upon the development of sound principles and procedures in meeting the different needs of the child in relation to the school, home, and community. Elementary health courses of study will form the basic point from which each student will explore content and methods for making a sound total health education program. The interrelationship of health education with all fields in the modern elementary program will be a focal point of attention.

Electives in Health and Physical Education

HEd 312 Special Events in Physical Education *2 hours 1 credit*

Planning and executing special events such as May Days, Festivals, Sports Days, Assembly Programs, Field Days.

HEd 331 Aquatic Leadership *3 hours 2 credits*

Leadership procedures in all aquatic activities found in the public school program and in school camps. The student will have an opportunity to qualify as a waterfront safety instructor and will study problems in organization and administration of aquatic programs. There will be a complete analysis of all swimming strokes and life saving techniques.

HEd 354 Seminar in Health Education *3 hours 3 credits*

This course is designed for health and physical education seniors. to reinforce basic concepts, current approaches, and present-day trends and problems in the field of health education, with special emphasis on readings, discussions, and projects. Completion of the student-teaching experience is a prerequisite.

HEd 355 Kinesiology *2 hours 2 credits*

The purpose of this course is to give the student an understanding of the basic fundamentals of movement-articulations, muscular actions, and the analysis of the related principles of mechanics.

HEd 375 Officiating Women's Sports *3 hours 2 credits*

This course is designed to include the ethics of sport officiating, to practice techniques of officiating at high school and college games, and to master the rules of various sports through application and understanding. The student may gain recognition of competency by receiving an official's rating in at least one sport. A basic knowledge of officiating can result in the definite improvement of a player and a coach.

HEd 377 Theories and Practices of Training and Conditioning *2 hours 2 credits*

A course designed to acquaint the student with current theories and practices of physical conditioning and athletic training. The various formal systems of conditioning the body and techniques of management of athletic injuries will be discussed, analyzed and practiced.

HEd 378 Facilities and Equipment in Health and Physical Education *2 hours 2 credits*

This course is designed to familiarize the student with the procedures and practices involved in (1) formulating planning principles and planning guides, (2) understanding Department of Public Instruction's regulations governing planning for public school building facilities, and (3) practical and functional design of indoor and outdoor areas and facilities.

HEd 390 Physical Disabilities of Childhood *2 hours 2 credits*

A comprehensive study of the common disabilities of childhood, especially those deviations that are chronic in character. Major emphasis will be placed on developing an understanding of the medical aspects and problems of rehabilitation of the physically disabled.

HEd 391 Psychology of the Physically Handicapped *3 hours 3 credits*

A study of the psychology of physique and physical disability and the related cultural implications. Students will be given an opportunity to make personal exploration into the psychodynamics of disability. This course is designed for and applied to certification in special education for the physically disabled.

HEd 392 Introduction To Physical Therapy *2 hours 2 credits*

An introductory course for men and women students anticipating matriculation in a post-graduate school of Physical Therapy. Major emphasis will be placed on correlating selected basic biological and physical science information relative to the practice of Physical Therapy. Prerequisites: BIO 261 (Human Anatomy) and BIO 262 (Human Physiology).

HEd 465 Elementary Physical Education Curriculum *3 hours 3 credits*

Students will learn to construct and evaluate the curriculum in elementary physical education. The curriculum will be analyzed grade by grade for suitable game, rhythmic and self testing activities. The growth and developmental needs and interests of the children will be considered, along with the progression and continuity through the grades.

HEd 466 Self-Testing Activities in Elementary School Physical Education *2 hours 2 credits*

A course for elementary education majors, designed to supplement HEd 201 (Practice and Theory in Elementary Education) and HEd 202 (Dance Activities in the Elementary Program). All stunts, tumbling, apparatus, mimetics, and sports skills used in the elementary school physical education program will be covered. The student will also learn the testing procedures used for physical fitness and motor skills in the elementary schools.

Electives in Skills and Activities Open to All Curriculums

HEd 107 Eurythmics *2 hours 1 credit*

The development of an appreciation of rhythmic movement patterns through specific dance forms: Polka, Schottische, Waltz, Mazurka, Pavanne, Polonaise, Sarabande, Bouree, Gavotte, Minuet. Opportunities will be provided for the application of the principles of eurythmics in teaching music to children through both the planning and teaching of typical elementary school units; such as, Folk Festivals, Circuses, May Days, Indians, Transportation, Work and Occupations, Special Holidays. Some swimming activities are included.

HEd 201 Practice and Theory in Elementary Physical Education *2 hours 1 credit*

The basic organization of the physical education program in the modern elementary schools is reviewed. Basic principles in teaching children how to play simple games and relays and those other recreational activities that are associated with this age group. Opportunities for lesson planning and teaching are provided for in a practical manner. The ability to plan for and direct the physical education period in the elementary school program will be a main objective for each student.

HEd 202 Dance Activities in the Elementary Program
2 hours 1 credit

The place of fundamental rhythms, creative rhythms, singing games, and folk dances on the elementary level will challenge the student. Personal skills in these areas will develop and each student will assume the leadership in directing these activities in class situations. The use of dancing activities for demonstrations and pageants will be studied.

HEd 205 Dance Activities in Secondary Schools
2 hours 1 credit

Rhythmical activities that are of great interest to secondary schools will be offered. These include social, folk, square, and country dancing. Emphasis will be placed upon both the development of individual skill and ability to help direct these activities as a feature of the recreational program in schools.

HEd 219 Introduction to Sports in the Renaissance Period
2 hours 1 credit

Students will study the origins and development of fencing, crossbow, singlestick, riding, falconry, paume, diavolo, hunting, and other activities of the period. On an individual and group basis, opportunities will be provided for participation in certain ones.

Electives in Health

Open to All Curriculums

HEd 353 First Aid for Teachers *2 hours 2 credits*

A study of advanced first aid techniques and the methods and procedures for teaching first aid; problems of safety in home and school. Successful completion of this course may qualify the student for an instructor status.

HEd 356 Mental Hygiene *3 hours 3 credits*

The course offers the principles of mental hygiene and aspects of personality in terms of the description and explanations of human adjustment. Principles, theories, and practices are reviewed and applied to individual, school, and community health problems.

HEd 451 Community and School Health Education Workshop *3 hours 3 credits*

A study of common problems in the home, community, and school health education areas. A five-point program is as follows: to provide in-service training in health education; to stimulate and promote an effective follow-up program in health services; to coordinate the efforts of allied health agencies; to stimulate and promote interest in local health units; and to develop an awareness of the place of mental health in the total health program of the home-school-community.

Electives in Dance
Open to All Curriculums

HEd 341 Modern Dance I *2 hours 1 credit*

This course is designed to prepare teachers in all elements of Modern Dance Activities that are employed in the Public School Program. The student is thoroughly grounded in fundamentals and teaching techniques of Modern Dance on the Elementary and Secondary levels. Opportunity for creative work is provided.

HEd 342 Modern Dance II *2 hours 2 credits*

This course is designed to further prepare teachers in all elements of Modern Dance Activities that are employed in the Public School Program. The student will be thoroughly grounded in the intermediate and advanced technique, choreography and rhythmic training involved in Modern Dance. Opportunity is provided for experience in organizing and participating in Dance Concerts.

HEd 343 Principles of Choreography *2 hours 2 credits*

Understanding of the art of dance composition will be developed through instruction in its basic elements—space, rhythm, and motion dynamics. Students will design original movement, progressing from simple to complex solo and group forms.

HEd 344 Dance in Theater Arts *2 hours 2 credits*

Dance as a performing art will be presented through past and contemporary theatrical dance forms. Practical experience will include accompaniment, costume, sets, and lighting. Students will be given the opportunity to stage complete theatrical productions.

HEd 345 Advanced Folk Dancing *2 hours 2 credits*

This course is designed to continue folk dance beyond the elementary dances and will offer opportunities for staging of the folk dance.

Electives in Recreation
Open to All Curriculums

HEd 366 Organization and Administration of Recreation *3 hours 3 credits*

Policies and procedures which are essential in the promulgation of recreation programs on local, state, and national levels. This includes visitation to and evaluations of recreational centers in operation. Students will be given opportunities to plan and administer recreational projects. Prerequisite: Principles of Recreation.

HEd 367 Arts and Crafts in Recreation *3 hours 3 credits*

Theoretical and practical applications in the use of arts and crafts materials as a means of furnishing channels for recreative outlets for all age groups. Opportunities will be given to work in the various media customarily found in school, camp, and community recreation programs.

HEd 368 Music in Recreation *3 hours 3 credits*

A study of the many phases of recreational music as an effective leisure time activity for all age groups in communities, camps, playgrounds, and recreational centers; an understanding of the functions of the recreation leader in the music phase of the recreation program.

Specific activities in which students will participate are as follows: community singing and conducting, rounds, contra songs, action songs, making stereoptican slides for group singing, playing simple instruments such as the tonette or song flute, making rhythm band instruments, playing in and conducting a rhythm band, producing musical puppet shows, simple operettas, setting up the organization for the advanced listening, singing, and playing program.

HEd 369 Dramatics in Recreation *3 hours 3 credits*

The place of dramatic activities that meet recreational needs of all groups as either participants or spectators of the activities. Emphasis will be placed upon the appropriate plays and other dramatic media that fit all age levels in any community.

HEd 370 Camping and Outing *3 hours 3 credits*

A program including both theory and practice in all the elements of camping and outing programs. The student will gain an insight into these activities from the viewpoints of the camper, the counselor, the supervisor, the specialist, and the director.

HEd 462 Principles of Recreation *2 hours 2 credits*

Historical background of the present play movement; theoretical explanations of play; the need for play in modern life and its place in education and recreation; the fundamental principles and methods of recreation leadership.

HEd 464 Supervised Recreation Leadership (Field Experience in Education) *6 hours 3 credits*

Students will have guided experiences in active leadership in the various recreational programs of our immediate area. A one-hour practicum will be held each week to discuss problems and principles of Recreational Leadership. (For further details see Parts 2. and 3. of section on Health and Physical Education Curriculum.)

EDUCATION FOR SAFE LIVING

HEd 481 Introduction to Safety Education *3 hours 3 credits*

A survey course in safety education. The philosophy, need, history, and psychology of accident prevention are studied. Emphasis is placed on the study of the total safety problems in school, industry, community, and traffic. Special emphasis is placed on the legal responsibilities of the teacher for maintaining a safe environment and on his contribution to civil defense.

HEd 482 Driver Education and Training *3 hours 3 credits*

Designed for prospective teachers of Driver Education in the secondary school. Instruction is given in the techniques of effective teaching in the automobile as well as the opportunity to actually teach a non-driver how to drive. The method and technique of assessing a beginning driver's ability to operate a motor vehicle safely are studied. Some of these are driving skill tests, psycho-physical tests, and personality inventories. Students will collect and study the necessary materials to carry on a Driver Education program in the secondary school and apply techniques of evaluating this material. Finally, a thorough examination is made of the various types of automobile insurance available and the existing traffic laws of the Commonwealth.

HEd 483 Psychology of Accident Prevention *3 hours 3 credits*

A study of the underlying psychological causes of accidents which includes the role of unconscious determinism, poor habits and attitude formation, poor individual adjustment, inappropriate motivation, and personality defects. Attention is also given to the effect of stirred-up emotional states and one's ability to live safely.

HEd 484 Method and Materials of Safety Education *3 hours 3 credits*

A comprehensive study of the total safety program with special consideration for the area of special interest to the student. The major emphasis is on the teaching of safety, including the latest methods and materials, the instruction of lesson plans, units and other teaching aids. Each student will get an opportunity for presentation of a practice lesson for evaluation and critique.

HEd 485 Organization and Supervision in Safety Education *3 hours 3 credits*

History, philosophy, and basic principles of organization and administration of safety education. Organization and supervision of safety education in public schools, including program planning. Legal aspects in the administration of school safety. Prerequisite: Introduction to Safety Education.

Mathematics Department

DR. FILANO, *Chairman*

Associate Professors: Bell, Branton, Cohoes, Mandelbaum, Milliman, Montemuro, Moser, Weiss; Assistant Professors: Stanley, Verno, Wiener; Lecturers: Childs, Ern, Gysling, Love.

Mat 101 Introduction to College Mathematics I
3 semester hours

A course emphasizing fundamental mathematical ideas and methods of mathematical thinking. Includes reasoning in mathematics, sets, logic, number systems and the structure of mathematical systems. Both semesters and summer session.

Mat 102 Introduction to College Mathematics II
3 semester hours

A continuation of Mat 101. Topics included for study are selected from functions, probability, equations, limits, geometry, and trigonometry. Prerequisite: Mat 101. Both semesters.

Mat 105 College Algebra and Trigonometry
3 semester hours

A unified course in algebra and trigonometry. Included for study are absolute value, inequalities, functions, and equations and identities in both fields. Prerequisite: Three years of high school mathematics. Both semesters and summer session.

Mat 106 Foundations of Mathematics *3 semester hours*

A course in fundamental concepts of mathematics. Set theory, logic, and the structure of the number system are emphasized. Also included for study are mathematical induction, determinants, and selected topics from the theory of equations. Prerequisite: Mat 105 or 4 years of high school mathematics. Spring semester and summer session.

Mat 121 Statistics *3 semester hours*

A study of the presentation and analysis of numerical data. Includes graphs, frequency distributions, measures of central tendency and dispersion, correlation, probability, regression and prediction, normal curve, and reliability of statistical measures. This is a course for non-mathematics majors. Prerequisite: 2 years of high school mathematics. Spring semester.

Mat 141 Analytic Geometry and Calculus I

3 semester hours

An introduction to the fundamental ideas of calculus and analytic geometry. Included for study are limits, continuity, derivatives of algebraic functions, application of derivatives, an introduction to integration, and elements of analytic geometry. Prerequisite: Mat 105 or 4 years of high school mathematics. Both semesters and summer session.

Mat 142 Analytic Geometry and Calculus II

3 semester hours

A continuation of Mat 141. Emphasis is placed on methods of integration, applications of integration, transcendental functions, and plane analytic geometry. Prerequisite: Mat 141. Both semesters and summer session.

Mat 211 Linear Algebra *3 semester hours*

An introduction to linear algebra. The course includes matrices and determinants, systems of linear equations, vectors, and linear transformations. Prerequisite or concurrent: Mat 142. Spring semester.

Mat 231 Modern Geometry I *3 semester hours*

A course for the extension of competency in geometry. Included for study are historical background, axiomatic systems, theorems of Ceva, Menelaus, cross-ratio, elementary transformations, and Euclidean constructions. Prerequisite: Mat 142. Fall semester.

Mat 232 Modern Geometry II *3 semester hours*

A continuation of Mat 231 emphasizing the foundations of geometry. Projective, hyperbolic, and other non-Euclidean geometries are among the topics selected for study. Prerequisite: Mat 231. Spring semester.

Mat 241 Analytic Geometry and Calculus III

3 semester hours

A continuation of Mat 142. This course places emphasis on a study of polar coordinates, parametric equations, solid analytic geometry and vectors, and additional topics in differential and integral calculus. Prerequisite: Mat 142. Both semesters and summer session.

Mat 242 Analytic Geometry and Calculus IV

3 semester hours

A continuation of Mat 241. Included for study are partial derivatives, multiple integrals, infinite series, expansion of functions, and additional topics in analytic geometry. Prerequisite: Mat 241. Both semesters.

Mat 311 Algebra for Elementary Teachers *3 semester hours*

A course providing algebraic background material for the elementary school teacher. Among the topics included for study are properties of real numbers, equations and inequalities, systems of equations, modular arithmetic, complex numbers, and algebraic structures. Prerequisite: Mat 102. Spring semesters.

Mat 331 Geometry for Elementary Teachers *3 semester hours*

A course providing geometric background material for the elementary school teacher. Among the topics included for study are informal geometry, points, lines, planes, space, geometric figures, measurement of lengths, angles, areas, and volumes, similarity, congruence, coordinate geometry, and the postulational method. Prerequisite: Mat 102. Fall semesters.

Mat 343 Differential Equations *3 semester hours*

A course in the theory, solution, and application of ordinary differential equations. Included for study are differential equations of the first order and first degree, linear differential equations with constant coefficients, equations of higher order and degree, Laplace transforms, solution by series, and numerical solutions. Prerequisite: Mat 242. Both semesters.

Mat 350 Teaching of Mathematics in Secondary Schools *3 semester hours*

A course in modern techniques of teaching mathematics. Includes the aims of mathematics instruction, motivation, methods of instruction and evaluation in mathematics. Emphasis is placed on the new mathematics and on modern courses of study. Opportunities are provided for students to plan and present lessons in mathematics and to observe mathematics classes in secondary schools. Prerequisite: Mat 241. Both semesters.

Mat 351 Teaching of Mathematics in Elementary Schools *3 semester hours*

A course designed to acquaint students with modern methods of teaching mathematics and with the content of the elementary mathematics curriculum. Emphasizes the teaching of concepts, stresses the construction and use of learning aids, considers syllabi and texts, provides opportunities for students to prepare and present lessons in mathematics and to observe mathematics classes in elementary schools. Both semesters and summer session.

Mat 401 History of Mathematics *3 semester hours*

A study of the growth of mathematics and the men who contributed to it. Included for study are number systems, Babylonian and Egyptian mathematics, Greek mathematics, Hindu and Arabian mathematics, European mathematics, and modern mathematics. Prerequisite: Mat 241. Spring semester.

Mat 405 Special Topics in Mathematics *3 semester hours*

The content of this course is variable and will be announced at the time of offering.

Mat 411 Modern Algebra I *3 semester hours*

A course in the foundations of algebra. The postulational approach to algebraic systems is emphasized. Cardinality, mappings and relations are introduced; groups, rings, integral domains, and fields are among the general algebraic systems studied. Prerequisite: Mat 241. Fall semester.

Mat 412 Modern Algebra II *3 semester hours*

A continuation of Mat 411. Emphasis is placed on a more detailed study of the properties of the algebraic systems introduced in Modern Algebra I. Prerequisite: Mat 411. Spring semester.

Mat 414 Theory of Numbers *3 semester hours*

A study of the properties of the integers. Among the topics included for study are congruences, primes, factorization, and diophantine equations. Prerequisite: Mat 242.

Mat 421 Mathematical Statistics I *3 semester hours*

A course in probability and an introduction to statistics. Included for study are fundamentals of probability, random variables, expectation, and discrete and continuous distributions, including the normal, binomial, and Poisson. Prerequisite: Mat 242. Both semesters.

Mat 422 Mathematical Statistics II *3 semester hours*

A continuation of Mat 421 with an emphasis placed on statistical measures and their application. Included for study are the law of large numbers, central limit theorem, estimation, testing of hypotheses, decision making, correlation, regression, and other distributions. Prerequisite: Mat 421.

Mat 425 Numerical Analysis *3 semester hours*

A study of numerical methods for the approximate solution of applied problems. Among the topics included for study are interpolation theory, curve fitting, approximate integration, and the numerical solution of differential equations. Prerequisite: Mat 343.

Mat 432 Topology *3 semester hours*

An introductory course in the basic notions of point set topology, elementary set theory, topological spaces, connectedness, compactness, metrizability, completeness, and transformations are among the topics included for study. Prerequisite: Mat 242.

Mat 441 Advanced Calculus I *3 semester hours*

A course in the foundations of real analysis. Includes a rigorous treatment of limits, continuity, derivatives, sequences, and Riemann integrals. Prerequisite: Mat 242. Both semesters.

Mat 442 Advanced Calculus II *3 semester hours*

A continuation of Mat 441. Included for study are functions of several variables, partial differentiation, implicit function theorems, transformations, multiple integrals and other selected topics. Prerequisite: Mat 441. Spring semester.

Mat 445 Complex Variable *3 semester hours*

An introduction to functions of a complex variable. Included for study are analytic functions, mappings, differentiation and integration, power series, and conformal mappings. Prerequisite: Mat 242.

Mat 490 Seminar in Mathematics *3 semester hours*

A course in selected topics in mathematics. The topics considered will be chosen on the basis of their significance and student-instructor interest. Independent study and student reports, both oral and written, will be integral parts of the course. Prerequisite: Senior standing and consent of the department chairman.

CSc 201 Basic Computer Science *3 semester hours*

Study of computer-associated equipment including card punch, verifier, sorter, interpreter, accounting machine, and collator. Machine language programming on the 1620 computer. Computer input-output media including magnetic tape and desk storage. Demonstrations on the computer. Both semesters and summer.

CSc 301 Computer Programming *3 semester hours*

Study of computer system configuration is followed by discussion of data characteristics, instruction formats, and data transmission. Consideration of symbolic languages, an introduction to SPS, and study of Fortran. Discussion of fixed and floating point arithmetic is illustrated with applied programming problems using the college computer. Other topics considered include address modification and indirect addressing. Both semesters and summer.

Music Department

DR. MITCHELL, *Chairman*

DR. ANTONOWICH, *Vice-Chairman*

Professors: Cheesman, Johns, Schick, Wilkinson, Wright; Associate Professors: Anderson, Barrow, Carson, Clarke, Gangemi, Gottlieb, Hays, Parris, Pennington, Pflieger, Read, Sheppard, Sprenkle, Sweet, Veleta, Whitten, Williams; Assistant Professors: Alt, Beatty, Bedford, Boerlin, Brown, Carl, Conaway, Conaway, Guidetti, Hales, Krueger, Markow, Middleton, Vandever, Whitten; Instructors: Breuninger, Vaughan; Lecturers: Kelly, Veleta.

Theory

Wright, *Chairman;* Beatty, Gangemi, Hayes, Middleton, Read, Schick, Sweet, Wilkinson.

The theory courses aim to develop the techniques required for a comprehensive understanding of music literature and the background necessary for intelligent interpretation, arranging, and composition. These techniques include: the harmonization of melodies; analysis of form; creative work—at the keyboard and written; aural recognition of the harmonic vocabulary being studied; and the application to the keyboard of this vocabulary.

Mus 100 Foundations of Music *3 semester hours*

See course description under MUSIC: Humanities.

Mus 110 Theory of Music *3 semester hours*

This course includes the study of sound and the use of such related mathematical skills as first degree equations, ratios, and interferences of periodicities. Aural recognition of the diatonic triads and their inversions is stressed as well as the development of part-writing skills. Melodic, rhythmic, and harmonic dictation is included. Prerequisite: Mus 100. Both semesters and summer.

Mus 201 Theory of Music *3 semester hours*

A continuation of the development of basic skills presented in the preceding course, and introducing the study of modulation and non-harmonic tones. Prerequisite: Mus 110. Both semesters and summer.

Mus 202 Theory of Music *3 semester hours*

In this course the student is given additional practice in handling the materials of Theory of Music 110 and 201. Seventh chords and chromatic alterations are introduced. Prerequisite: Mus 201. Both semesters.

Mus 301 Theory of Music *3 semester hours*

This course augments the student's harmonic vocabulary with a study of modulation to remote keys while developing the material of Theory of Music 202. Special attention is placed upon arrangement of compositions for voices and piano. All the techniques acquired in previous courses will be further developed. Creative application of materials is emphasized. Prerequisite: Mus 202. Both semesters.

Mus 211 Sight-Singing I *3 semester hours*

A study devoted to developing the specific skill of singing at sight. Emphasis rests upon coordination of the visual, aural, and theoretical aspects of the process. Extensive drill in individual and part-singing is directed toward quick recognition of appropriate tonal and rhythmic problems and the ability to reproduce them vocally. Prerequisite: Mus 100. Both semesters and summer session.

Mus 212 Sight-Singing II *2 semester hours*

Increased facility in reading is developed through the use of material of advanced difficulty involving chromatic alterations, more remote modulations and intricate rhythms. Prerequisite: Mus 211. Both semesters.

Mus 233 Basic Physical Science (Musical Acoustics) *3 semester hours*

A special course in musical acoustics arranged for students in the Music Education Curriculum to give them an understanding of the nature of sound and the basic principles of production and transmission of sound with their applications to musical instruments. Further consideration is given to the physical basis of harmony and scales, hearing, the acoustics of concert halls, and the recording and reproduction of sound. Both semesters.

Mus 321 Counterpoint *2 semester hours*

A course in the contrapuntal techniques of tonal music. The writing of inventions through four parts will be used to develop skill in motive development. Prerequisite: Mus 202. Both semesters.

Mus 322 Orchestration *2 semester hours*

A course including the techniques of the instruments of the orchestra and band and presenting the principles of instrumentation in theory and practice. Special emphasis is given to arranging for school orchestras and bands. Prerequisite: Mus 202. Both semesters.

Mus 323 Composition *2 semester hours*

A course designed to give the advanced student more intensive experience in creative work. Although no definite idiom is prescribed, the use of contemporary techniques is encouraged. The work done in this course will be written for various mediums. Each student is offered guidance and aid in writing compositions in the forms, styles, and mediums best suited to his own special capabilities and needs. Prerequisite: Mus 202. Spring semester.

Music Education and Student Teaching

Antonowich, *Chairman;* Beatty, Brown, Pflieger, Vandever, Vaughan, and Staff.

Mus 351 Elementary Music Methods (Human Development) *3 semester hours*

A course dealing with the human growth and development of children in the elementary grades. The psychological aspects of creating desirable attitudes in children are stressed. Emphasis is placed upon the potent influence which music has upon the personal, emotional, and social development of the child. Included in assignments are the development of the child's voice, his physical responses, music reading skills, and individual growth through creative musical activities. Particular emphasis is placed upon the selection and analysis of materials and evaluative techniques. Both semesters.

Mus 311 Secondary Music Methods *2 semester hours*

A study of the choral and general music program of the secondary public schools. Included in assignments and discussions are: the development of good human relations involving the teacher, the students, the faculty, and the administration; the organization, procedure, problems and materials of vocal music classes, covering voice classification, the changed and changing voices, voice classes, and choral organizations; special classes—the gifted and the retarded child; public performances; the school assembly; music appreciation classes; scheduling; requisitioning supplies and equipment; and school-commu-

nity relationships. Special attention is given to the study of skills in teaching the general music classes. Particular emphasis is placed upon the selection and analysis of materials and evaluative techniques. Directed observations are included. Both semesters.

Mus 312 Instrumental Methods *2 semester hours*

Fundamentals underlying the development of instrumental programs in the public schools. A variety of current practices and problems are investigated and considered with the viewpoint that no one type of organization will serve the needs of all communities and schools. Included are: background information on instruments of the orchestra and band; transposition, fingering, etc.; consideration of problems of organization and administration; discussion, analysis and demonstration of teaching techniques and procedures; examination and evaluation of materials. Both semesters.

Note: Mus 351 (Elementary Music Methods), Mus 311 (Secondary Music Methods) and Mus 312 (Instrumental Methods) are all presented to students in the Music Education Curriculum in the same semester of the junior year. They are so scheduled to permit regular and ample amounts of observation of the teaching of music in public schools and to correlate the course content with such observation. Thus, the student receives a practical introduction to the teaching of music in the public schools and undergoes a gradual induction into teaching responsibilities leading up to the student teaching semester.

Mus 324 Choral Materials and Practices *2 semester hours*

The course is designed to acquaint the student with a vast amount of choral music suitable for school use through actual analysis. Program building and other practical phases of presenting the chorus in performances are studied. Spring semester.

Mus 325 Piano Methods (Class) *2 semester hours*

A course providing for the training of piano teachers and supervisors for the organization and teaching of piano classes in the public schools. Suitable teaching material including the leading system of class piano instruction will be examined and discussed. Demonstrations and student teaching are included. Spring semester.

Mus 326 Instrumental Techniques and Materials *2 semester hours*

The course is designed for those juniors and seniors who desire to specialize in instrumental music by expanding their knowledge of the instruments and the organization and administration of an instrumental department; modern materials for instrumental groups are studied and evaluated; rehearsal procedures; minor repairs to instruments; competitions and festivals in Pennsylvania; program building with special emphasis on marching band procedures. Both semesters.

Mus 327 Teaching Music Appreciation in the Elementary Grades *3 semester hours*

A course designed to enrich the music program throughout the grades. Suitable and available materials will be suggested from which each member of the class will be expected to organize a unit of work for a specific grade. The subject of these units will be decided by the needs of the class itself. Throughout the course an attempt will be made to provide variety of approach and to present the subject so as to conform to the child's mental, physical, and psychological development. Summer session only.

Mus 402 Seminar in Piano Teaching and Teaching Materials *3 semester hours*

A seminar giving in-service music teachers and supervisors the opportunity for class study of outstanding examples of the piano literature. The role and integration of the piano into the public school program along with suitable teaching materials for class and private study will be analyzed and used in demonstrations and student teaching. Summer session only.

Mus 421 Student Teaching, Practicum, and Direction of Student Activities *12 semester hours*

Observation and participation in teaching situations ranging from the primary grades through senior high school, vocal and instrumental music, in conjunction with qualified cooperating teachers. Professional conferences and visitations are an integral part of the experience.

Humanities

Johns, *Chairman;* Clarke, Parris, and Staff.

Mus 100 Foundations of Music *3 semester hours*

Relates the technical aspects of music to the social and cultural currents of Western Music. The historical approach to technical mastery is presented here in a degree which is beyond the province of courses in History, Literature, and Appreciation of Music. Pitch and rhythm, its representation through the centuries to the present age, and the development of basic skills in sight singing and dictation are included. Both semesters.

Mus 220 Fine Arts *3 semester hours*

This is a course designed to give the student a stimulating background in the history and appreciation of music from the Classical Period through the Contemporary Period. The objective of the course is to provide a humanistic approach to the Art of Music by relating it to its contemporary arts and the societies in which it develops. The course provides further for a study of the major composers and their contribu-

tions to the literature of music. Stress is placed upon familiarity with the forms in music through analysis and comparison. To this end, representative compositions are heard and analyzed through recordings and other audible means. Both semesters and summer session.

Mus 250 History of Music I *3 semester hours*

This course is basically a survey of the important movements in the History of Music from Primitive Times through the Baroque Period. It involves a study of the traditions of primitive societies and ancient civilizations, the development of music in the Christian Church, the contributions of the Middle Ages, and the developments in music through the Renaissance and the Baroque periods. Stress is placed upon the music of the 17th and 18th centuries. Where practical, representative compositions are heard and analyzed through available recordings. Both semesters and summer session.

Mus 310 History of Music II *3 semester hours*

This course is in essence a continuation of the course History of Music I, although it need not necessarily be taken in order. It deals with a chronological study of the development in European and, to some extent, American music dating from the years after 1750 to the present era. It involves a study of the Classical, Romantic, and Twentieth Century movements in the field of music and stresses a knowledge of both vocal and instrumental forms. As with the earlier course, audio material is used to achieve the objectives of knowledge and understanding.

Mus 320 American Music *2 semester hours*

A course designed to trace the evolution of national style of composition from the earliest known American composers to the present day, and to acquaint the student with representative works of outstanding American composers. American music in our cultural heritage is analyzed and listened to with special regard for the amount of influence such things as jazz, impressionism, nationalities, and economics have had upon it. Spring semester.

Mus 328 Aesthetics and Music Criticism *2 semester hours*

A discussion of the nature of aesthetic experience and various problems in the philosophy of art, past and present; principles of criticism related to music and its performance.

Mus 410 Literature of the Musical Theater *3 semester hours*

The literature of the musical theater from the singspiel to the Broadway musical, with emphasis on the changes in style from the operetta to the Broadway musical.

Mus 412 Musico-Dramatic Production *2 semester hours*

An elementary study of the arts and crafts required in a musical production—including coaching, set designing and construction, stage movement, choreography, and costuming.

APPLIED MUSIC

Applied Music studied in this curriculum serves two purposes: that of developing the musicianship of the individual student; and that of providing the prospective teacher with the knowledge and techniques of various musical media needed for conducting an effective music program in the public schools. The program is carried out by means of individual and class instruction, according to the needs of the student. Opportunity is given for ensemble and for solo appearances in recitals and with college organizations.

Advanced standing in private study may be achieved by students after the freshman year, upon successfully passing certain tests. Extra credit will be given to students in the advanced standing classification.

Voice Faculty

Cheesman, *Chairman;* Alt, Anderson, Brown, Conaway, Kelly, Krueger, Markow, Sheppard, Sweet, Williams.

Mus 001-006 Voice *1 semester hour*

Six semesters of private vocal study are required of all students except students whose major area of performance is instrumental. Four semesters of vocal study are required of instrumental majors.

Mus 101-108 Advanced Voice *1 semester hour*

Eight semesters of private voice study are required of all students whose major area of performance is voice.

The study and application of the physiological and psychological principles of voice production and diction. The material used ranges from rote songs to classic and modern song literature, according to individual ability.

Mus 109-114 Advanced Voice *1 semester hour*

For students in this advanced study of voice who have completed by advance standing examination Mus 101 - 108.

Piano and Organ Faculty

Carl, *Chairman;* Beatty, Bedford, Gangemi, Gottlieb, Hales, Hayes, Mitchell, Parris, Pennington, Schick, Sprenkle, Veleta, Whitten, Wilkinson.

Mus 011-016 Piano *1 semester hour*

Six semesters of private piano study are required of all music education students.

Mus 111-118 Advanced Piano *1 semester hour*

Eight semesters of private piano study are required of all students whose major area of performance is piano.

Each student receives one-half hour instruction in piano per week. At the end of each semester students are expected to meet minimum requirements in sight-reading, technique, and general musicianship, as determined by examinations before the piano faculty. The study of the piano includes keyboard harmony in the free piano style.

Mus 119-124 Advanced Piano *1 semester hour*

For students in this advanced study of piano who have completed by advanced standing examination Mus 111 - 118.

Mus 019 Organ Class *½ semester hour*

Designed to familiarize the student with some of the problems of service playing. Study of fundamental pedal techniques, hymn playing, and simple anthem accompaniments will be emphasized. Available to piano majors or by permission of the instructor.

Mus 076-080 Organ *1 semester hour*

Designed to acquaint the student with the fundamental techniques of the pipe organ and with some of the preludes, postludes, and voluntaries desirable in service playing. A practical course for piano majors who will continue with piano as the applied music major.

Mus 151-158 Advanced Organ *1 semester hour*

Individual instruction in pipe organ is offered to familiarize the student with the literature of the instrument and to develop a playing technique. (For a limited number of students in the music education curriculum who have met the piano and keyboard requirements.)

Mus 159-164 Advanced Organ *1 semester hour*

For students in this advanced study of organ who have completed by advanced standing examination Mus 151 - 158.

Instrumental Faculty

Carson, *Chairman;* Barrow, Boerlin, Breuninger, Clarke, Guidetti, Johns, Middleton, Read, Veleta.

Mus 021-022 Violin *1 semester hour*

Two semesters of class instruction in violin, two hours per week, are required of all music education students. Tone production, fingering, and technique are stressed.

Mus 121-128 Advanced Strings *1 semester hour*

A minimum of four semesters of private study is required of all students whose major performing area is string instruments. Repertoire and public performance are stressed.

Mus 129-134 Advanced Strings *1 semester hour*

For students in this advanced study of a string instrument who have completed by advanced standing examination Mus 121 - 128.

Mus 221-228 String Ensemble Class *½ semester hour*

The String Ensemble Class is devoted to the study and performance of standard chamber music compositions. Depending upon representative instruments, the class is organized in the form of quartets, trios, etc. Membership is dependent upon ability to perform and is subject to audition.

Mus 031-032 Clarinet *½ semester hour*

Two semesters of class clarinet, one hour per week, are required of all music education students. Tone production, embouchure, fingering, and technique are stressed.

Mus 131-138 Advanced Woodwinds *1 semester hour*

A minimum of four semesters of private study is required of all students whose major performing area is woodwind instruments. Repertoire and public performance are stressed.

Mus 139-144 Advanced Woodwinds *1 semester hour*

For students in this advanced study of a woodwind instrument who have completed by advanced standing examination Mus 131 - 138.

Mus 231-238 Woodwind Ensemble Class *½ semester hour*

Practice and performance of selected medium to difficult woodwind ensemble literature, from trios to large ensembles, according to instrumentation and performance level of the class.

Mus 041-042 Trumpet *½ semester hour*

Two semesters of class trumpet, one hour per week, are required of all students.

Mus 141-148 Advanced Brasses *1 semester hour*

A minimum of four semesters of private study is required of all students whose major performing area is brass instruments. Repertoire and public performance are stressed.

Mus 149-154 Advanced Brasses *1 semester hour*

For students in this advanced study of a brass instrument who have completed by advanced standing examination Mus 141 - 148.

Mus 241-248 Brass Ensemble Class *½ semester hour*

The Brass Ensemble will consist of select brass and percussion players who are selected by audition. The ensemble will perform concert repertoire music dating from the earliest to contemporary brass music. The Brass Ensemble Class will be offered in the second semester of each school year. It will be open, by audition, to students of any curriculum who can qualify. Concert performance is required.

Mus 051 Percussion *½ semester hour*

One semester of percussion is required of all music education students.

Mus 052-053 Instruments (Elective) *½ semester hour*

After having met the instrumental requirements in Violin, Clarinet, and Trumpet, the following instruments are elective through class instruction: viola, cello, bass, flute, oboe, bassoon, horn, trombone, baritone, tuba, percussion. For those advanced students who are interested in small ensemble groups in woodwinds, brass, or strings, opportunity is given to survey literature for such ensembles and to study ensemble style by participation.

Mus 071-075 Orchestra (Elementary) *½ semester hour*

A minimum of two semester hours of orchestra is required of all music education students.

Students review and perform orchestra music of first, second, and third grade difficulty, suitable for use with school and community orchestras.

Mus 171-178 Symphony Orchestra *½ semester hour*

Eight semesters are required for all students who qualify for the Symphony Orchestra.

The Symphony Orchestra prepares music for its major programs from the standard symphonic repertoire and also accompaniments for the Student Recitals which feature vocal and instrumental majors capable of performing with full orchestra. Almost half of the time each year is spent on sight-reading as much standard symphonic literature as possible. Membership in the orchestra is determined by audition.

Mus 271-278 Little Symphony Orchestra (Sinfonietta) *½ semester hour*

The Sinfonietta is an organization of highly selective membership performing music more specifically associated with smaller symphonic groups. Primarily, the literature represents the Baroque, Classical, and Modern Periods. The Sinfonietta performs major concerts both on campus and for off-campus engagements. Membership is determined by audition.

Mus 081-085 Band (Elementary) *½ semester hour*

A minimum of two semester hours of band is required of all music education students.

Students review and perform band music of first, second, and third grade difficulty suitable for use with school and community bands.

Mus 091-098 Second Concert Band *½ semester hour*

A training organization for the study and performance of band literature of medium difficulty. This band is also open to students from the Elementary, Secondary, and Health and Physical Education curriculums for extra-curricular credit.

Mus 181-188 Concert and Marching Band *½ semester hour*

Eight semesters are required of all music students who qualify for the Concert and Marching Band.

Open to men and women of any curriculum. Music for the Concert Band includes band music used at state festivals. Admission by tryout.

Mus 332 Instrumental Conducting *2 semester hours*

A study, theoretical and practical, of the conducting of various types of instrumental groups. Instrumentation, interpretation, balance, and score reading are studied, discussed, and practiced. Emphasis is placed on the development of adequate rehearsal techniques and skills. Physical elements which can improve or handicap a performance are discussed. Typical works of the late 18th and early 19th centuries are prepared and conducted from the full score. Both semesters. Prerequisite: Mus 331—Choral Conducting.

Choral Faculty

Sweet, *Chairman;* Sheppard, Williams.

Note: A minimum of six semesters of choral experience is required of all music education students. Eight semesters are required of all students except those majoring in a band or orchestra instrument.

Mus 061-064 Mixed Chorus *½ semester hour*

A group of freshman and sophomore Music Education students which meets once a week as a mixed chorus and once a week as Men's Chorus and Women's Chorus. It joins with the Concert Choir for combined performances.

Mus 161-164 Choir *½ semester hour*

A mixed choir of junior and senior Music Education students which meets twice a week, devoting its efforts toward a wide association with choral literature. It is used as an opera chorus in Music Department productions and joins with the Concert Choir for large combined performances.

Mus 361-368 Concert Choir *½ semester hour*

A mixed choir of Music Education students selected by audition. This choir of approximately forty voices meets twice a week, devoting its efforts toward acquiring a fine technique of choral singing through the preparation of an extensive repertoire for performance.

Mus 331 Choral Conducting *2 semester hours*

A practical application of conducting and vocal techniques to chorus direction is made through actual practice in conducting a choral group. Score reading, rehearsal techniques, and other related subjects are studied with reference to the maintenance of an effective chorus program in the schools. Both semesters.

ELECTIVES: OPEN TO ALL STUDENTS

Mus 007-010 Applied Music *1 semester hour*

Students in any curriculum may elect to study piano, voice, or some instrument, and receive credit upon demonstration of satisfactory progress. One lesson each week. Course placement will depend upon the student's background.

Mus 261-268 Women's Glee Club *½ semester hour*

The aim of this organization is to provide an opportunity for non-music women students to participate in a choral group. The activities include the Annual Christmas Carol Program and Women's Glee Club Spring Concert. Membership is by individual audition.

REQUIRED COURSES IN MUSIC FOR ELEMENTARY EDUCATION STUDENTS

Mus 050 Fundamentals of Music *no credit*

A course given to those students in the Elementary Curriculum who do not meet the prescribed requirements of a Standard Achievement Test in music. Fundamentals of Music includes the study of intervals, scales, measure and key signatures, simple and compound rhythms, notation and terminology, and the application of this knowledge to reading simple music. Prerequisite to Music for the Elementary Grades. Both semesters.

Mus 251 Music for the Primary Grades *3 semester hours*

A course designed to equip the graduate, under supervision, to help in the enrichment of the music program in the primary grades of the public schools. Special emphasis is given to the student's acquiring a knowledge of the piano keyboard, voice production, elementary theory, rhythm, and form. In addition, various teaching methods and the use of materials that function in the program are presented: singing, also rhythmic listening, creative and instrumental activities keyed to the needs of the elementary child. Type lessons for the primary grades are taught by the student and constructively evaluated; observation of music in the schools is incorporated. Both semesters.

Mus 252 Music for the Intermediate Grades *3 semester hours*

A course designed to equip the graduate, under supervision, to help in the enrichment of the music program in the intermediate grades of the public schools. Special emphasis is given to the student's acquiring a knowledge of the piano keyboard, voice production, elementary theory, rhythm, and form. In addition, various teaching methods and the use of materials that function in the program are presented: singing, creative and instrumental activities keyed to the needs of the child in the intermediate grades. Type lessons for the intermediate grades are taught by the student and constructively evaluated; observation of music in the schools is incorporated. Both semesters.

ELECTIVE COURSES IN MUSIC FOR ELEMENTARY EDUCATION STUDENTS

Mus 100 Foundations of Music *3 semester hours*

See course description listed under MUSIC: Humanities.

Mus 327 Teaching Music Appreciation in the Elementary Grades *3 semester hours*

See course description listed under MUSIC EDUCATION and STUDENT TEACHING.

Mus 401 Piano Class (Elementary Teachers) *3 semester hours*

Functional study of the piano through class lessons so that the elementary teacher may use the instrument as a means of broadening the elementary music program into the integrated Elementary Education Curriculum. Piano accompaniments for classroom singing and rhythmic and creative activities are stressed through study, demonstrations, and teaching of practical classroom materials. A course designed primarily for the in-service elementary classroom teacher. Summer session.

Mus 007-010 Applied Music *1 semester hour*

Students in any curriculum may elect to study piano, voice, or some instrument, and receive credit upon demonstration of satisfactory progress. One lesson each week.

REQUIRED COURSE FOR ALL STUDENTS

Mus 220 Fine Arts (Music) *3 semester hours*

See course description listed under MUSIC: Humanities.

NOTE: Many of the courses in the Music curriculum are available to students in other departments. There are no fees for the students who qualify for the larger musical organizations.

Philosophy Department

DR. CLAGHORN, *Chairman*

Assistant Professors: Banyacski, Kapunan, Struckmeyer.

Phi 372 Survey of Oriental Religions *3 semester hours*

A critical survey of the origins, growth, and beliefs of the major non Judeo-Christian world religions. Hinduism, Buddhism, Zoroastrianism, Jainism, Sikhism, Shintoism, Confucianism, and Islam are considered. Spring semesters.

Phi 374 Problems of Aesthetics *3 semester hours*

The interpretation of beauty and art. Special attention is given to the effect of motivation and to problems in media and goals. The purpose of the course is to furnish a background of meaning for the evaluation of specific works of painting, sculpture, music, and architecture. Spring semesters.

Phi 380 Ethics *3 semester hours*

A consideration of the great ethical systems of history and of their application to personal and social life. The right and the good, the nature of values, and critical ethical dilemmas. Fall semesters.

Phi 480 Introduction to Philosophy *3 semester hours*

An introduction to the chief problems and methods of philosophic thought, with a survey of some typical solutions. Emphasis is on the place and influence of philosophy in the life of man today. Both semesters and summer session.

Phi 481 History of Philosophy, Ancient and Medieval *3 semester hours*

A survey of the major thinkers of the Western world, in the light of their times. From the Pre-Socratics through Plato and Aristotle to the late Middle Ages.

Phi 482 History of Philosophy, Modern *3 semester hours*

From Descartes to Hegel. Special emphasis will be placed on the social, political, and scientific impact of the philosophers.

Phi 483 Philosophy of History *3 semester hours*

Classic philosophies of history, including those of Augustine, Vico, Hegel, Marx, Spengler, Toynbee, and Collingwood. Definitions of civilization, norms of progress and decadence, determinism and indeterminism, causality, and pattern. Fall semesters.

Phi 484 American Philosophy *3 semester hours*

A study of the leaders in science and literature, religion and government, who have shaped American thought. Philosophers of Puritanism, the Revolution, Transcendentalism, and native schools of Realism, Idealism, and Pragmatism are considered. Fall semesters.

Phi 485 Contemporary Philosophy *3 semester hours*

Philosophic trends since 1850, including Pragmatism, Positivism, Existentialism, the Analytic School, and the East-West discussions. Spring semesters.

Phi 486 Philosophy of Religion *3 semester hours*

A study of religion and the religious experience as conceived by great minds of history. The proofs for God, the nature of God, the problem of evil, religious epistemology, faith, immortality, and prayer. Fall semesters.

Phi 487 Philosophy of Science *2 semester hours*

The nature of scientific method and scientific theory, with reference to presuppositions, inference, explanation, prediction, applications, and verification.

Phi 488 Epistemology *3 semester hours*

Theories of truth, perception, and understanding. Classic and contemporary discussions on the nature of the self, in relation to the known world.

Phi 490 Logic *3 semester hours*

The art of critical thought and of sound reasoning. Formal and classical logic; propaganda; and introduction to the scientific method. Both semesters and summer session.

Phi 491 Advanced Logic *3 semester hours*

The study of symbolic logic and its relation to contemporary philosophy and scientific thought. A concentrated study of two-valued sentential and quantificational logic and an introduction to many-valued logics, modal logic, and natural deduction. Prerequisite: *Phi* 490. Spring semesters.

Phi 498 Seminar in Ancient Philosophy *3 semester hours*

The directed study of a given topic in ancient philosophy as it relates to vital questions of our own time. Topic for 1967-68: Aristotle. Required for all philosophy majors. Prerequisite: six hours of Philosophy or permission of the instructor. Fall semesters.

Phi 499 Seminar in Modern Philosophy *3 semester hours*

An intensive study of some major theme of modern philosophy. Topic for year 1967-68 will be: Recent Social Philosophy. Required of all philosophy majors. Prerequisite: six hours of philosophy or permission of the instructor. Spring semesters.

Public School Nursing Courses

MRS. SCHOEL, *Coordinator*

PSN 300 Public School Nursing *2 semester hours*

This course reviews the fundamental principles of school nursing as a branch of public health nursing, including historical background. the various fields it covers, the problems and limitations that are involved. Responsibilities of the nation, state, community, school board, administrators, and the school nurse are studied.

PSN 302 Public Health Nursing I *3 semester hours*

A survey of the fundamental principles and the historical background of public health work in Europe, England, and America. Much stress is placed on the recent movement to bring this work up to date in our own state and the training and procedures by which it is to be accomplished. Careful consideration is given to the social changes in medicine, preventive techniques, population trends, modern ideas of sanitation and sewage disposal, housing conditions of today, methods of record keeping, Civil Service procedures and limitations as they concern the nurse.

PSN 303 Public Health Nursing II *3 semester hours*

A continuation of Public Health Nursing I. The course deals with past and present patterns, definitions, and processes of public health nursing practice which apply to public health nursing today. Career planning and professional development of the school nurse specialty is an important aspect of the course. Special emphases are placed upon school nursing as it relates to the total community health program. Generalized versus specialized public health nursing service is carefully analyzed.

PSN 304 Foundations of Nutrition *3 semester hours*

An overview of the principles of normal nutrition as they relate to therapeutic conditions in light of current developments, food habits, marketing and budgeting. The nurse's role is covered in the following fields: teaching of nutrition in schools, homes, institutions and family nutrition service. This course is based upon the premise that the appraisal of nutritional needs and resources of the family and community precedes the development of a plan of guidance and counseling in the nutritional component of public health nursing today.

PSN 306 Prevention and Control of Communicable Diseases *3 semester hours*

The course is designed to help the school nurse to gain a more comprehensive understanding of those communicable diseases which are creating current health problems in our communities. Special emphasis will be placed upon the school nurse's role as a member of the school health team in the prevention and control of communicable disease problems.

PSN 320 Problems in School Nursing; Methods and Materials for School Nurses *3 semester hours*

This course is a continuation of PSN 300 and will deal primarily with the special physical, emotional, and social problems of our society which affect the health of children and the methods employed at home, school, and in the community to solve them. Methods and materials in health education evaluation and administration will be included as an integral aspect of the course in an effort to help the school nurse participate more effectively as a health resource person on the school health team.

PSN 370 Mental Hygiene *3 semester hours*

The course is designed to bridge the gap between mental health principles and practices of yesterday and today; the content has been geared to the needs of public school nurses and their understanding of mental hygiene as it relates to the family, the school, and the total community. The dynamics of psychological adjustment as they relate to the normal individual are a special aspect of this course.

Department of Sciences

DR. RICKERT, *Chairman*

DR. DORCHESTER, *Vice-Chairman*

Professors: Bravo, Overlease, Reynolds, Trezise; Associate Professors: Ashkenaz, Bernhardt, Casciato, Cullen, Dzuranin, Greenberg, Hawkes, McDonnell, Shoaf, Skillen, Townsley; Assistant Professors: Bliss, Brownell, Cinquina, Gerchman, Greenwood, Jacobson, Jones, Schoel, Smith; Instructors: Melucci, Reed, Woodruff; Lecturers: Fein, Lair.

General Service Courses

Bio 100 Basic Biological Science *4 semester hours*

A course dealing with the principles of biology. Topics include cellular structure and physiology, growth and repair, reproduction and development, control, sources of food energy, inheritance, and man's interrelationship with his biological environment. The classification of plants and animals is reviewed briefly. Both semesters and summer sessions.

Sci 150 Basic Physical Science *4 semester hours*

Deals with the interpretation of selected phenomena and data supporting selected theories. Subject matter usually includes astronomy, Newton's laws of motion, conservation laws, energy, and structure of matter. Both semesters and summer session.

Sci 250 Science for the Elementary Grades *3 semester hours*

A course following the year of basic science designed to provide the elementary teacher with a more adequate background for teaching science in the elementary school. Units or problems are selected to achieve this purpose which cut across various fields of science. Emphasis is placed upon developing resourcefulness, in gathering data, and using scientific methods in the solution of such problems. Prerequisites: Basic Biology and Basic Physical Science, or acceptable equivalent courses. Both semesters and regular summer session.

Sci 251 Matter and Energy *3 semester hours*

Understanding of motion, heat, electricity, and the structure of matter advanced beyond the levels usually attained in Basic Physical Science. Such theories as relativity and the quantum theory will be discussed on a qualitative basis. Recommended as an elective for students in elementary education and others who do not choose a physics or chemistry elective. Cannot be used to satisfy requirements for a field of specialization in science. Prerequisite: Basic Physical Science. Spring semester and summer sessions.

Sci 252 Earth Science *3 semester hours*

Forces bringing about changes in the earth's crust applied to the problem of explaining present and past changes. Diastrophism, vulcanism, erosion, and sedimentation will be included. Physical changes in the atmosphere will be studied as major influences governing the weather. Finally, the earth will be considered as a member of the solar system. This course is recommended an an elective for students in Elementary Education who have completed Science 150 (Basic Physical Science). Not open to students who have received credit for Geo 205, 206, 301 or 302. Cannot be used to satisfy requirements for a field of specialization in Science or Geography. Fall semester and summer sessions.

Sci 261 Physical Geology *4 semester hours*

The composition of the earth is studied, and the agents that sculpture the land are investigated. Rocks and minerals are examined, and the processes of weathering, erosion, vulcanism, and diastrophism are discussed. Interpretation of geologic and topographic maps and aerial photographs is made in order to determine the significance of geologic features found on them. Fall semester and summer session.

Sci 262 Historical Geology *4 semester hours*

This course discusses the history of the earth with emphasis on North America; the methods used to determine this history are explained. Selected fossils that are representative of each geologic period are studied. The paleontology, paleogeography, stratigraphy, and economic geology of each geologic period are analyzed. Spring semester and summer session.

Sci 263 Mineralogy and Petrology *3 semester hours*

The physio-chemical principles used in the classification, identification, and origin of minerals and rocks are examined. How minerals are combined to form rocks is discussed. Samples of rocks and minerals are analyzed in the laboratory, and the economic significance of these rocks and minerals is studied. Prerequisites: General Chemistry II and Physical Geology. Fall semester of odd years.

Sci 264 Geochemistry *3 semester hours*

The chemistry of the lithosphere, hydrosphere, atmosphere, and biosphere is examined. Reasons for the occurrence and concentration of certain chemical elements in certain areas of the earth will be discussed. The migration of chemical elements and its relationship to geologic processes are studied. Prerequisites: General Chemistry II and Physical Geology. Spring semester of odd years.

Sci 350 Teaching Science in Secondary Schools *3 semester hours*

A course designed to familiarize prospective teachers with the philosophy, objectives, and methods related to the teaching of science. Practical experience is provided in the selection of textbooks, preparation of unit and lesson plans, construction of tests, and use of special techniques. Prerequisites: 16 hours of work in major field. Fall semester and summer session.

Bio 210 Field Botany *3 semester hours*

A course giving methods useful in the study of plants in their natural surroundings. The use of keys, botanical manuals, and illustrated floras to identify living specimens will constitute a major activity. Prerequisites: Basic (College) Biology or two semesters of Botany. Summer session.

Bio 301E Basic Genetics *3 semester hours*

A course for non-major students based on the study of the Mendelian Laws of Inheritance. Mitosis, meiosis, and cell structure will be reviewed. Mechanics of monohybrid and dihybrid crosses, linkage, crossing-over, and probability will be considered. Practical applications related to elementary teaching will be stressed. Not open to Science Majors. Fall semester.

Bio 355 Wildlife Conservation *3 semester hours*

A field course in which emphasis will be placed on principles of conservation of plants and animal resources. Wildlife refuges, nature preserves, state parks, forests and game lands will be visited. Pertinent literature will form the basis of collateral reading assignments. Active membership in a nationwide organization concerned with wildlife protection will be encouraged. Prerequisite: Basic (College) Biology or three semesters of Botany and Zoology. Fall semester.

Phy 330 General Astronomy *3 semester hours*

A study of astronomical bodies from the earth to distant galaxies. The emphasis is upon the question, "How do we know?" as applied to astronomical distances and stellar statistics such as temperature, composition, mass, and size. The life history of stars is explored. Prerequisite: Sci 150 or equivalent. Fall semester and summer session.

Biology

Bio 111 Botany I *4 semester hours*

Botany I is a study of flowering plants. Topics include the structure and life processes of plant cells, leaves, stems, roots, flowers, seeds, and fruits. The economic importance of plants used by man and the recognition and classification of seed plants in the immediate environs of the College are included. Fall semester.

Bio 112 Botany II *4 semester hours*

Botany II is concerned primarily with the non-flowering plants. It considers both the structure and life processes of selected algae, bacteria, fungi, mosses, ferns, and their allies. The economic importance and health implications of certain of these groups are emphasized. Spring semester.

Bio 141 Zoology I *4 semester hours*

A study of representative life forms from each of the invertebrate phyla. Emphasis is placed on their structure, function, origin, development, economic importance and biological significance. Every fall semester and summers of odd years.

Bio 142 Zoology II *4 semester hours*

A study of the chordates in general, and more particularly the classes of vertebrates. Topics studied include the anatomy, physiology, origin, development, and life history of representative members of each class. Every spring semester and summers of even years.

Bio 241 Field Zoology *3 semester hours*

A course to familiarize teachers with the animal life in the surrounding localities. Considerable attention will be given to the use of keys, charts, books, and museum specimens as guides to the identification and classification of various animals. Field trips will be taken to observe, collect, and study animals as well as their habits. Prerequisite: Basic (College) Biology or at least one semester of Zoology. Summer sessions.

Bio 242 Ornithology *3 semester hours*

An introduction to the birds of Pennsylvania with special emphasis on the identification of birds in the field. Lectures deal with classification, migration, habitat preference, song, courtship, nesting and rearing of young, and plumage changes. Abundant field work gives practice in identification of native birds by their songs, behavior, form, and plumage. Prerequisite: Basic (College) Biology or at least one semester of Zoology. Spring semester; also in summer pre-session.

Bio 243 Comparative Anatomy *3 semester hours*

Comparative anatomical study of organ systems and evolutionary development of various classes of chordates. Laboratory work involves a thorough dissection of an agnathan, a chondrichthyan, an osteichthyan, an amphibian, a bird, and a mammal. Prerequisite: Zoology II. Spring semester of odd years.

Bio 261 Human Anatomy *4 semester hours*

A one semester course in human anatomy with special emphasis in the skeleto-muscular system. Both semesters and summer session.

Bio 262 Human Physiology *4 semester hours*

A one semester course in basic human physiology with special emphasis on the circulatory, respiratory, and nervous systems. Both semesters and summer session.

Bio 301 Genetics *3 semester hours*

A course giving the student an understanding of the laws of inheritance as they operate in plants, animals, and humans. Cell structure, Mendelian inheritance, eugenics, linkage, probability, crossing over, and random assortment are all considered. Prerequisites: Six hours of biology. Both semesters. Open only to majors.

Bio 302 Ecology *3 semester hours*

The study of the relationship between living things and their environment will be approached through the study of individual ecosystems. Included in the course will be the study of the aquatic, the forest, the field, and the city ecosystems. Each of these will be studied through actual experiences in the field. Methods of sampling will be emphasized. Prerequisite: Six hours of biology or permission of the instructor. Fall semester.

Bio 310 Bacteriology *3 semester hours*

A study of microscopic forms of life which are commonly encountered in biological work. Emphasis is placed upon culture techniques and physiological processes of micro-organisms. Prerequisites: Botany I and II, Zoology I and II. Fall semester of even years.

Bio 341 Entomology *3 semester hours*

A general study of insects, including structure, physiology, economic importance, classification, and relationships. Each student is required to participate in field trips and to complete a project including a collection and report on some group of insects. Prerequisite: Basic Biology or Zoology I. Spring semester of even years.

Bio 344 General Physiology *3 semester hours*

A one semester course in the general principles of Physiology. The course is centered around the concept of homeostasis and includes such topics as: the nature of protoplasm, acid-base balance, bioenergetics, electrophysiology, and enzyme activity. Prerequisites: Two semesters of general chemistry and one semester of organic chemistry, Bio 141 and 142, and Mat 105 or equivalent.

Bio 345 Plant Physiology *3 semester hours*

An examination of the physiological processes of plants is undertaken. Topics of study include photosynthesis, respiration, intermediate metabolism, entrance of solutes into the plant, water metabolism, and plant growth regulators. Prerequisites: Two semesters of college botany, General and Organic Chemistry. Fall semester of odd years.

Bio 346 Plant Structure *3 semester hours*

A microscopic examination of the structure of plant cells is undertaken stressing the interrelationship of cells, the function of cells, and the variations of cell anatomy. Prerequisites: Two semesters of college botany or the permission of the instructor. Fall semester of even years.

Bio 351 Embryology *3 semester hours*

Introduction to the principles of animal development illustrated by laboratory work consisting of a comparative anatomical and histological study of the processes of fertilization, cleavage, gastrulation, tubulation, and early organic formation in invertebrate and vertebrate embryos. Prerequisites: Zoology I and II and General Chemistry II. Fall of odd years.

Bio 402 Cytology *3 semester hours*

Plant and animal cells are studied with special emphasis on intracellular structures in relation to their respective functions. Cell division, both mitotic and meiotic, is considered in the light of modern theories of molecular biology. Laboratory work includes classical staining methods and analysis of their meaning in terms of the chemical nature of protoplasm, as well as modern cytochemical techniques. Prerequisites: Botany I and II, Zoology I and II and General Chemistry II. Spring semester of even years.

Bio 411 Plant Taxonomy *3 semester hours*

The principles of taxonomy as applied to the practical experience of plant identification will be stressed. Modern concepts of biosystematics will be introduced. Skill in the use of plant keys for identification will be developed as well as knowledge of the local flora. The course will include field trips and visits to local botanical gardens. Prerequisite: One year of general botany. Fall semester of even years.

Bio 450 Biology Seminar *1 semester hour*

Reports on special topics and current developments in the biological sciences. Prerequisite: 24 credit hours in biological sciences. Fall and spring semesters.

Bio 452 Special Problems in Biology *1 to 3 semester hours*

A tutorial course for advanced undergraduates who are judged capable of doing independent study and research on a minor problem. By arrangement with professor.

Chemistry

Che 100 Principles of Chemistry *4 semester hours*
(for Health Education students only)

A survey course required of all students of health and physical education. It does not satisfy the requirements in chemistry for science majors. The fundamental laws and theories of chemistry, problem solving, and laboratory techniques are stressed. Both semesters and summer.

Che 103 General Chemistry I *4 semester hours*

A study of the basic laws of chemistry, fundamentals of chemical combination, atomic structure, chemical bonding, oxidation-reduction, solutions, electrochemistry, and modern concepts of acids and bases. Fall semester and summer.

Che 104 General Chemistry II and Qualitative Analysis
4 semester hours

A continuation of chemistry 103 to include a study of the oxidation states of the common elements, chemical equilibrium, solubility product and pH, and nuclear chemistry. Laboratory work includes the semi-micro qualitative analysis of the common ions. Prerequisite: Chemistry 103. Spring semester and summer.

Che 231 Organic Chemistry I *4 semester hours*

A study of the structural features of organic molecules and the relationship of their properties to the functional groups involved. All types of organic compounds are discussed, but the main emphasis is on the aliphatic series. Prerequisite: Chemistry 104. Fall semester and summer.

Che 232 Organic Chemistry II *4 semester hours*

A continuation of Chemistry 231 to include a more detailed study of aromatic and heterocyclic compounds. Prerequisite: Chemistry 231. Spring semester.

Che 321 Quantitative Analysis *4 semester hours*

A study of the theory, practice, and calculations of gravimetric, volumetric, electrolytic, and potentiometric analysis. Prerequisite: Chemistry 104. Fall semester.

Che 324 Instrumental Methods of Analysis *3 semester hours*

A study of the theory and applications of modern instrumentation in analytical chemistry including techniques in potentiometry, conductivity, spectroscopy, and chromatography. Prerequisite: Chemistry 321. Spring semester.

Che 341 Physical Chemistry I *4 semester hours*

A study of the properties of the states of matter, chemical thermodynamics, thermochemistry, theory of solutions, and homogeneous chemical equilibrium. Prerequisites: Chemistry 321; Physics 102 and Mat 241 (may be concurrent). Fall semester.

Che 342 Physical Chemistry II *4 semester hours*

A continuation of chemistry 341 to include heterogeneous equilibria, electrochemistry, chemical kinetics, and atomic and molecular structure. Prerequisite: Chemistry 341. Spring semester.

Che 401 History and Literature of Chemistry *2 semester hours*

A study of the historical background of chemistry, and instruction in the use of a modern chemical library. Prerequisite: senior standing and permission of instructor. Fall semester of odd years.

Che 408 Industrial Chemical Processes *3 semester hours*

A course emphasizing the industrial aspects of chemistry including a description of chemical machineries, unit operations and processes, selected demonstration experiments, and trips to neighboring industries. Prerequisite: Chemistry 231. Spring semester of even years.

Che 410 Advanced Inorganic Chemistry *3 semester hours*

The applications of modern chemical theories to inorganic substances and reactions. Includes a study of the chemistry of the short and long transition elements. Prerequisite: Chemistry 104. Spring semester of odd years.

Che 432 Qualitative Organic Analysis *3 semester hours*

A laboratory course devoted to the identification of unknown organic compounds and mixtures. Includes classical procedures and modern techniques such as infrared and ultraviolet spectroscopy, etc. Prerequisites: Chemistry 321 and 232. Fall semester.

Che 480 Introduction to Chemical Research
2 to 6 semester hours

A program of study for senior students designed to introduce them to a library and laboratory problem under direct supervision of a staff member. Prerequisite: senior standing and permission of instructor. Every semester.

Physics

Phy 101 Physics I *4 semester hours*

An introductory course. Topics discussed include statics; uniformly accelerated motion; Newton's laws; gravitation; work and energy, and momentum; angular motion; simple harmonic motion; mechanics of fluids; heat and temperature, and thermodynamics; and the kinetic theory. Emphasis is placed on the conservation laws throughout. Concurrent: Mat 105 or Mat 141. Fall semester and summer session.

Phy 102 Physics II *4 semester hours*

An extension of Phy 101. Topics discussed include wave motion and vibrating bodies; electrostatics, d. c. circuits, magnetic fields and effects, resistance, capacitance, and inductance; geometrical and physical optics; and modern physics. Concurrent: Mat 142 recommended. Prerequisites: Phy 101. Spring semester and summer session.

Phy 212 Mechanics *4 semester hours*

An intermediate course. Topics discussed include kinematics and dynamics of particles; work and energy; the conservation principles; free, forced and damped harmonic oscillations; rigid body motion; and properties of solids and liquids. Vector analysis is introduced as an integral part of the course. Concurrent: Mat 241 recommended. Prerequisites: Phy 102. Spring semester.

Phy 233 Introduction to Modern Physics *4 semester hours*

An intermediate course. Topics discussed include kinetic theory of gases, special relativity, quantum and wave aspects of electromagnetic radiation, atomic structure, and spectra, molecular and solid-state physics. Prerequisites: Phy 101, Phy 102, and Mat 142. Fall semester.

Phy 413 Analytical Dynamics *3 semester hours*

An advanced undergraduate course. This course is an extension of Phy 212 but the approach is more formal and analytical. Topics discussed include wave propagation; Lagrange's equations and Hamilton's principle; rigid body motion; and special relativity as it relates to classical mechanics. Prerequisites: Phy 212 and Mat 241. Spring semester of even years.

Phy 414 Heat and Thermodynamics *3 semester hours*

The topics discussed include equations of state; specific heat, and latent heat; first and second laws of thermodynamics; ideal and real gases; entropy; statistical mechanics. Prerequisites: Phy 101, Phy 102, and Mat 212. Spring semester of odd years.

Phy 421 Electricity and Magnetism *4 semester hours*

An intermediate course. Topics discussed include Coulomb's law, the electric field, and potential; dielectric materials; steady currents; the magnetic field and magnetic materials; and alternating currents. The Maxwell equations are introduced as an integral part of the course with application to electromagnetic radiation introduced at the end. Concurrent: Mat 343 recommended. Prerequisites: Phy 212 and Mat 142. Mat 241 is recommended. Fall semester.

Phy 422 Optics *4 semester hours*

An intermediate course in Optics. Theory and laboratory practice in geometrical and physical optics. Reflection and refraction at surfaces, lenses, interference and diffraction, spectroscopy, polarization, and the applications of electromagnetic theory to light are discussed. Prerequisites: Phy 212, Phy 421, and Mat 241. Fall semester of odd years.

Phy 423 Electronics *4 semester hours*

An intermediate course. Topics discussed include electron emission, rectification, voltage, and power amplification, impedance matching, oscillators, and test circuits. Vacuum tube and solid state devices are studied. Prerequisites: Phy 101 and Phy 102. Fall semester of even years.

Phy 432 Atomic and Nuclear Physics *4 semester hours*

The advanced undergraduate course. Topics discussed include the vector model and the qualitative mechanical descriptions of atoms; line spectra and the periodic chart; radioactivity; elementary particles; nuclear reactions; and nuclear structure. Prerequisites: Phy 212, Phy 421 and Mat 241. Spring semester of even years.

Phy 440 Introduction to Research *1 to 3 semester hours*

Theoretical and experimental work are carried on in the library and laboratories. Specific problems are selected in consultation with the faculty adviser. Prerequisite: consent of instructor. Fall and spring semester.

Phy 444 Seminar *1 semester hour*

Oral and written reports on approved topics. Variation in topics from year to year depending on the interests and needs of students. Prerequisite: senior standing. Spring semester.

Department of Social Sciences

DR. FLECK, *Chairman*

Professors: Carlson, Everett, Harding, Houpt, Maneval, Schooler; Associate Professors: Burns, Johnson, Phillips, Riley, Samuelson, Schalck, Shaffer, Soldon, Swan, Turner; Assistant Professors: Bradshaw, Bram, Burton, Drayer, Ivins, Morgan, Murphy, Shur, Young; Instructors: Doyle, Iacono; Lecturers: Fink, Gingold, Raju.

General

SSc 331 Teaching Social Studies in Secondary Schools *3 semester hours*

A course to familiarize prospective teachers with desirable methods which may be used in teaching the social studies. Emphasis is placed on the philosophy, objectives, courses of study, and organization of subject matter for teaching purposes, curriculum materials, procedures, and development. Teaching majors take this course in their junior year. Both semesters and summer.

SSc 332 Teaching Social Studies and Geography in Elementary Schools *3 semester hours*

A course designed to acquaint students with the methods of teaching social studies and geography in the elementary curriculum. It is a survey of methods and techniques as well as an examination of current research projects being carried on in the schools of America. Consideration is given to the use of reading materials, audio visual aids, resource persons, field trips and other tools of learning of value in social studies. The organization, development, and use of resource units are stressed. Both semesters and summer.

SSc 400 Senior Seminar *3 semester hours*

Selected topics for research in one of the social sciences. Emphasis on methodology, bibliography, and presentation, both oral and written. The research paper written for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all departmental majors in teacher education and liberal arts. Both semesters.

SSc 410 Independent Studies *1 to 3 semester hours*

Special research, projects, reports, readings. Open to seniors only. Prerequisite: permission of department chairman.

EUROPEAN TOUR

SSc 300 Seminar in Contemporary European Culture

6 semester hours

A fully guided tour of Europe with visits to important areas of the major countries. The tour is organized as a seminar with orientation discussions before departure. Opportunity will be provided for discussion periods en route. Each student will keep a daily diary with comments about and reactions to the places visited and things seen and discussed. Every summer.

History

His 101 History of Civilization I *3 semester hours*

A study of the origins and evolution of social institutions and cultural elements in the river valley civilizations of the ancient Near East, India, and China, and of the Hellenic and Roman Worlds. The course concludes with a discussion of the Middle Ages in western Europe and the Renaissance. Required in the freshman year of all departmental majors. Both semesters and summer.

His 102 History of Civilization II *3 semester hours*

A study of the developments in civilizations from 1500 to the present, with emphasis on Western Civilization and its interrelationships with the non-Western world. Required in the freshman year of all departmental majors. Both semesters and summer.

His 211 History of United States and Pennsylvania I

3 semester hours

A survey course in the history of the United States and Pennsylvania from the beginning of the colonial period to the end of the Civil War. Emphasis is placed on the social, economic, political, and intellectual development of our nation in general and our Commonwealth in particular. Prerequisite: His 101 - 102. Both semesters and summer.

His 212 History of United States and Pennsylvania II

3 semester hours

A survey course in the history of the United States and Pennsylvania from 1865 to the present. Stress is placed on the impact of the Industrial Revolution on our society, the growth of labor, world power, our part in World Wars I and II, and the activities of our nation in behalf of international organization. Prerequisite: His 101 - 102. Both semesters and summer.

His 218 The Ancient World *3 semester hours*

Primarily a study of the civilizations of ancient Greece and Rome. Consideration will be given to social, economic, and cultural as well as political history. Selected writings from the ancients will be studied. Prerequisite: His 101 - 102. Spring semesters.

His 219 Medieval Europe *3 semester hours*

A study of western European development from the fall of Rome to approximately the 1300 century. Emphasis is placed upon the economic, social, political, and intellectual developments in the major kingdoms of the West and upon the history of the Universal church. Particular attention is paid to the seigneurial-urban revolution of the eleventh century. Prerequisite: His 101 - 102. Spring semesters.

His 220 Renaissance and Reformation *3 semester hours*

A study of the political, economic, social, and cultural forces that emerged during this period of transition and ushered in the modern western culture. Emphasis is placed on the evolution of modern states and the rise of individualism. Prerequisite: His 101 - 102. Fall semesters.

His 221 Modern Europe to 1815 *3 semester hours*

This course covers events in Europe following the Reformation. Emphasis is placed on the Era of Spanish Predominance, the Scientific Revolution, the Thirty Years' War, the Age of Despotism, the rise of Russia and Prussia, and Eighteenth Century Thought. The course concludes with a study of the French Revolution and Napoleonic Wars. Prerequisite: His 101 - 102. Fall semesters.

His 222 Modern Europe Since 1815 *3 semester hours*

A survey of Europe in the 19th and 20th centuries with emphasis on social, economic, religious, and scientific as well as political developments. Wherever possible, attention is focused upon the large forces common to the whole of European civilization. Particular attention is devoted to movements such as liberalism, nationalism, democracy, imperialism, and socialism, as well as to the underlying causes of both World Wars. Prerequisite: His 101 - 102. Spring semesters.

His 313 History of Pennsylvania *3 semester hours*

A study of the founding and development of Pennsylvania from its colonial beginnings to the present time. Emphasis is placed on the social, economic, political, and intellectual developments in the different periods of its history. Special attention is given to the diversity, institutions and problems of the people and to the growth of Pennsylvania to a leading position in our modern industrial world. Prerequisite: His 211 - 212. Fall semesters.

His 314 Diplomatic History of the United States
3 semester hours

This study is divided into two segments: first, the course presents a rapid survey of theory and practice of American diplomacy from colonial times to 1900; second, the major part of the course deals with the era from 1900 to the present. The latter segment emphasizes the growth of the United States as a world power, the development of the Monroe Doctrine, the growth and influence of "isolationism," the diplomacy of World War II, and the emergence of the policy of containment. Prerequisite: His 211 - 212. Spring semesters.

His 315 Economic History of the United States
3 semester hours

A study of the economic development of the American nation as it evolved from a frontier, agricultural country into a wealthy industrial power. Prerequisite: His 211 - 212. Spring semesters.

His 316 History of the American Frontier *3 semester hours*

The study of the westward movement and expansion from colonial times to the end of the nineteenth century with a consideration of the frontier forces which shaped American democratic institutions and ideals. Prerequisite: His 211 - 212. Fall semesters.

His 317 History of American Science and Technology
3 semester hours

This course studies the importance of science, invention, and technology in the rise of the American nation from 1607 to the present and develops the transition from domestic manufacture to the machine age. Prerequisite: His 211 - 212. Fall semesters.

His 318 Constitutional History of the United States
3 semester hours

A study of the growth of the American Constitution from the Philadelphia convention of 1787 to the present time. Notable constitutional crises over such issues as nullification, secession, centralization, and presidential power are examined. Particular attention is given to the work of the Supreme Court in successive periods such as the Marshall Era, the Taney Era, the Post-Civil War Era, the New Deal Era, and the Civil Rights Era. Prerequisite: His 211 - 212. Fall semesters.

His 319 Social and Cultural History of the United States
3 semester hours

An examination of the evolution of American society from the Eighteenth through the Twentieth Centuries. Special emphasis is placed on the impact of improving material conditions on labor, the

arts, education, religion, social mores and family life. Attention is also given to the changing status of minority groups, including women, the Negro and the immigrant. Prerequisite: His 211 - 212. Spring semesters.

His 320 History of the South *3 semester hours*

An examination of the social, political, economic, and intellectual factors involved in the development of the American South from its colonial origins to the present. Emphasis is placed on pre-revolutionary settlements, plantations and slave society, ante-bellum and post-bellum political alignments, populist activities, and the emergence of an industrially oriented South. Prerequisite: His 211 - 212. Spring semesters.

His 321 History of England *3 semester hours*

This course covers the interaction of political, social, intellectual, and economic factors in England from the Roman Conquest to the present day. Emphasis is placed on the struggles between church and state, king and Parliament, and the aristocracy and the middle classes. Also emphasized is the rise of liberalism and the genesis of the democratic welfare state. Prerequisite: His 101 - 102. Spring semesters.

His 322 History of South Asia *3 semester hours*

Primarily designed as a historical study of developments on the Indian sub-continent (India and Pakistan), the course also considers those areas of South-East Asia (Burma and Thailand) which have been traditionally influenced by the course of Indian events. Prerequisite: His 101 - 102. Spring semesters.

His 323 History of the Middle East *3 semester hours*

A study of the history of the major Middle Eastern countries since 1900. At the beginning of the course some emphasis will be placed on the geographical, cultural, economic, and religious factors affecting the recent history of the area. Special emphasis is placed on Middle East problems which affect the international relations of the world. Prerequisite: His 101 - 102. Fall semesters.

His 324 History of Latin America *3 semester hours*

The development of the Latin American countries from the period of discovery to the present. The economic, social, political, and cultural areas receive special attention first as domestic problems, then as they are related to the various political units involved. The influence of European and American relations as they are reflected in local changes are given consideration. Prerequisite: His 101 - 102. Fall semesters.

His 325 History of the Twentieth Century World *3 semester hours*

This course examines the political, economic, social, and intellectual developments in the world since 1919. Special attention is given to the Versailles Peace Conference, the period between the wars, the failure of appeasement, the origins and development of World War II, the emergence of the Cold War, and the eclipse of imperialism. Prerequisite: His 101 - 102. Fall semesters.

His 326 History of Russia *3 semester hours*

A study of the Russians from the time of the Slavic migrations and the Kievan state to the present. Major emphasis is on the period since Peter the Great, with particular concentration on the political, diplomatic, economic and social development of Russia from 1917 to the present day. Prerequisite: His 101 - 102. Fall semesters.

His 327 The British Empire-Commonwealth *3 semester hours*

Traces the rationale of imperialism; the expansion of Britain overseas; the development of her colonial holdings; and the evolution of the concept and reality of the Commonwealth of Nations. Special emphasis is given to the development of the self-governing dominions: Canada, Australia, New Zealand, South Africa, and India, and the relation of these areas to the 20th-century world. Prerequisite: His 101 - 102. Fall semesters.

His 328 History of Modern Africa *3 semester hours*

Survey of the historical background of sub-Sahara Africa and North Africa, with primary emphasis on European expansion in the continent and its influence on 20th-century African political and social movements. Prerequisite: His 101 - 102. Spring semesters.

His 329 History of East Asia *3 semester hours*

Survey of the historical and cultural background of China, Japan, and Korea. Emphasis will be given to the significance of the modern period of East Asia and its impact on world affairs. Prerequisite: His 101 - 102. Spring semesters.

His 400 Senior Seminar in History *3 semester hours*

Research in history. Emphasis on methodology, bibliography, and presentation, both oral and written. The research paper written for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all History majors. Substitutes for SSc 400.

His 410 Independent Studies in History *1 to 3 semester hours*

Special research projects, reports, readings in history. Open to seniors only. Prerequisite: permission of department chairman.

Anthropology

Ant 231 Introduction to Cultural Anthropology *3 semester hours*

An introduction to the science of man both physical and cultural, emphasizing man's dual nature: as mammal and primate and as the creator and bearer of culture. The evolutionary perspective will be employed to show the interaction and interdependence of man the animal with man the unique cultural being. Both semesters.

Ant 331 Human Evolution *3 semester hours*

An intensive introduction to human evolution and race formation; the emergence of evolutionary theory, comparative primate anatomy and behavior, the fossil record, population genetics, climate and race, races of the world. Emphasis will be on the genetic theory of evolution. Some preliminary course work in Biology is recommended. Spring semesters of odd years.

Ant 332 Social Organization *3 semester hours*

An intensive consideration of types of social groups, their structure and function. Kinship-based groupings, bands, villages and larger units, as well as associations and secret societies, will be considered. Emphasis will be on forms of organization characteristic of preliterate cultures. Prerequisite: Ant 231. Spring semesters of even years.

Ant 333 Cultural Dynamics *3 semester hours*

An empirical and theoretical study of culture change. Theories of cultural evolution will be stressed, with some emphasis placed on empirical studies of culture changes. The impact of western civilization on preliterate cultures will be discussed. Prerequisite: Ant 231. Fall semesters of odd years.

Ant 334 World Ethnography *3 semester hours*

Selective survey of the preliterate cultures of the world, especially those of Oceania, Tropical Africa, and the American Indian. Emphasis will be on the cultures as they were before the changes wrought by contact with the west, although problems of culture change will be discussed. Selection will be made to illustrate various levels of societal complexity. Prerequisite: Ant 231. Fall semesters of even years.

Ant 400 Senior Seminar in Anthropology *3 semester hours*

Research in anthropology. Emphasis on methodology, bibliography, and presentation, both oral and written. The research paper written for the seminar must be acceptable as a required departmental Senior Research Paper. Substitutes for SSc 400.

Ant 410 Independent Studies in Anthropology
1 to 3 semester hours

Special research projects, reports, readings in anthropology. Open to seniors only. Prerequisite: permission of department chairman.

Economics

Eco 231 Principles of Economics *3 semester hours*

A study of the fundamental concepts necessary for an understanding of the operation and problems of a modern industrial economic system. Of basic concern is the explanation of production and consumption activities in our modified capitalistic economy, accompanied by considerable emphasis on the important and urgent problems of unemployment, inflation, economic growth, and concentration of economic power. Attention is given to associated matters such as labor problems, business organization, banking, and the economic role of government. Both semesters and summer.

Eco 332 Contemporary Economic Problems *3 semester hours*

This course applies economic principles and economic reasoning to the analysis of today's major economic issues. Of primary importance is the comparison of social costs and benefits of alternative approaches to the resolution of economic problems. Specific problem areas covered include economic growth, price and employment instability, government intervention and control, income distribution, and international economic relations. Prerequisite: Eco 231. Fall semesters.

Eco 333 Consumer Economics *3 semester hours*

A major objective of this course is to acquaint the student with the kinds of economic decisions he must make as a consumer. Of equal importance is an analysis of the economic and social consequences of common patterns of consumer decision-making. Specific topics include saving, investment, budgeting, advertising, insurance, housing, medical care, consumer protection, and the consumer and government. Both semesters.

Eco 334 Industrial Relations *3 semester hours*

The history of labor-management relations in the United States is surveyed. This provides the background for analysis of objectives sought and policies followed by labor and management in modern industrial relations. The collective bargaining process is examined and its influence in the labor market evaluated. The role of government in industrial relations is thoroughly examined. Prerequisite: Eco 231. Spring semesters.

Eco 335 Money and Banking *3 semester hours*

A course designed to portray the place and influence of monetary institutions and policies in a modern industrial economy. The historical evolution of modern monetary systems is traced and is used to aid the explanation of general principles of credit, the effect of monetary policy on economic activity, money and price levels, and the Federal Reserve and the banking system. Prerequisite: Eco 231. Fall semesters.

Eco 336 Business and Government *3 semester hours*

The general objective of this course is to examine the major ways that government directly modifies the operation of our private-enterprise economy. Particular concern is paid to the pros and cons of public policies which change the extent or nature of competition, those which substitute public for private enterprise, and those which substitute regulation for competition. Prerequisite: Eco 231. Fall semesters.

Eco 337 Economic Growth and Development *3 semester hours*

A two-fold approach is taken in this course. First is a survey and critical evaluation of general theories of economic development in a capitalist economy. Second is an examination of special problems facing presently underdeveloped countries and regions, and of alternative public policies for attacking these problems. Prerequisite: Eco 231. Fall semesters.

Eco 338 International Economics *3 semester hours*

This course is a descriptive and analytical examination of the conditions which lead to and shape international economic relationships. Of major concern are the operations of the financial institutions which facilitate trade and other relationships among nations. Specific topics include the balance of trade and payments, disequilibrium and gold flows, exchange rates, quotas and exchange control, and "the dollar shortage." Prerequisite: Eco 231. Spring semesters.

Eco 339 Economic Statistics *3 semester hours*

A course designed to introduce the student to the systematic presentation and evaluation of quantitative economic data. Preliminary concepts and methods such as measures of central tendency and dispersion are followed by probability, sampling and testing, estimation, index numbers and time series, regression and correlation, all emphasizing economic issues and applications. Prerequisite: Eco 231. Spring semesters of even years.

Eco 340 Intermediate Economic Theory *3 semester hours*

A continuation and extension of the price-system analysis of Eco 231. Emphasis is given throughout to the issue of efficiency in the economy's use of scarce productive resources. Prerequisite: Eco 231. Spring semesters of odd years.

Eco 341 Public Finance *3 semester hours*

A course designed to investigate the economic impact of government expenditures and of the methods used to finance those expenditures. Attention is paid to the scope of governmental activity at federal, state, and local levels, taxes and their effects on income and incentives, budget policy and economic stability, and the economics of the public debt. Prerequisite: Eco 231. Fall semesters of odd years.

Eco 342 Business Cycles *3 semester hours*

An examination of the nature and causes of fluctuations in the level of economic activity. Various theories of the business cycle are investigated, as well as the use of quantitative indicators. Also included is an introduction to economic forecasting. Prerequisite: Eco 231. Fall semesters of even years.

Eco 400 Senior Seminar in Economics *3 semester hours*

Research in economics. Emphasis on methodology, bibliography, and presentation, both oral and written. The research paper written for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all economics majors. Substitutes for SSc 400.

Eco 410 Independent Studies in Economics
1 to 3 semester hours

Special research projects, reports, readings in economics. Open to seniors only. Prerequisite: permission of department chairman.

Political Science

PSc 201 Introduction to Political Science *3 semester hours*

Introduction to the study of political phenomena: Society, the state and man; political theory; modern governmental systems; international relations; administration; political organizations; and the methodology and approaches used by political scientists in the study of political man. Both semesters and summer.

PSc 231 American Government *3 semester hours*

A study of the general principles of the American system of constitutional government; special emphasis is placed upon the organization and functions of the national government—legislative, executive, and judicial; the rights and duties of citizenship; the electorate, political parties, civil rights, and the growing regulatory functions of government are carefully treated. Both semesters and summer.

PSc 331 State and Local Government *3 semester hours*

Organization, theory, functions, and politics of United States, state, and local governmental units. Approach to defining the role of state government in a changing federal system in such areas as finances, services, civil liberties, and economic development. Assessment of action necessary within state and local governmental units to enable them to meet current and future challenges. Prerequisite: PSc 231. Spring semesters.

PSc 332 Comparative Government *3 semester hours*

Major attention is given to Great Britain and Soviet Russia as best representing, among foreign governments, the democratic and authoritarian systems. Brief consideration is given to the governments of France, Italy, Germany, and Japan. Frequent comparison and contrasts are drawn between these governments and government in the United States. Prerequisite: PSc 231. Spring semesters.

PSc 333 International Politics *3 semester hours*

Major aspects of the politics among nations (including those carried on through international organizations, such as the United Nations) will be emphasized. The exigencies of power politics, techniques of diplomacy, and methods of current international organizations will be studied. Current events and recent history will be cited only as illustrations of these techniques and methods. Special attention will be given to the interests and policies of the United States. Prerequisite: His 222, or consent of the instructor. Spring semesters.

PSc 334 American Political Parties *3 semester hours*

This course emphasizes the patterns, functions, and history of the American political party system at the national, state and local levels. Stress is on nominations, elections, party finance, the uses of patronage by machines, and lobbying techniques. Emphasis is also given to theoretical and empirical studies in political interest, group dynamics, and voting behavior. Prerequisite: PSc 231. Fall semesters.

PSc 335 American Political Ideas *3 semester hours*

Emphasis is placed upon the nature of American political ideas. This includes the English and European backgrounds, the political thought of the American Revolution, and the concepts of democracy and the extensive republic. Political ideas as a response to the industrialization of the society are analyzed. The crisis of individualism and the philosophy of the welfare state are given critical evaluation as an introduction to present democratic thought. Prerequisite: PSc 231. Spring semesters.

PSc 336 Soviet Government and Politics *3 semester hours*

An investigation into the concepts of interest and political power defined within the framework of Soviet history and ideology. An analysis of Soviet national interest, world revolution, ultimate goals of Soviet policy, and domestic limitations and needs against the background of world events since 1917. Special emphasis is placed upon internal politics as shaped by Lenin, Stalin, Khrushchev, and their successors. Prerequisite: PSc 231. Fall semesters.

PSc 337 American Foreign Policy *3 semester hours*

This course investigates theories, goals and methods of American Foreign Policy in the 20th century. While the historical development of American Foreign Policy is given attention, special emphasis is placed on current foreign policy problems and goals. Prerequisite: PSc 231. Fall semesters.

PSc 338 Introduction to Political Thought *3 semester hours*

Essentially a survey course. The political thought of the great philosophers of Western Civilization is examined. The intent of the course is to demonstrate to the student the relevancy of the great political philosophers to today's political beliefs and practices. Prerequisite: PSc 231. Spring semesters.

PSc 339 Elements of Public Administration *3 semester hours*

U. S. public administration studied using texts and case studies illustrating approaches to organizational theory, administrative law, budgeting, personnel functions, human behavior and motivation, and techniques of organizational rationality. Prerequisite: PSc 201 or PSc 231. Fall semesters.

PSc 340 American Constitutional Law *3 semester hours*

The development of the American Constitutional System as reflected in leading decisions of the U. S. Supreme Court. This course emphasizes the various national powers, federalism and the bill of rights. Prerequisite: PSc 231. Fall semesters.

PSc 341 International Law *3 semester hours*

Major aspects of international law will be covered. Special emphasis will be placed on the nature, sources, and subjects of this branch of law. Methods and practicalities of international legal action will be considered, and the case method of analysis will be employed to gain an insight into the basic areas of international law, such as: territory, jurisdiction over vessels, state responsibility, diplomatic immunity, etc. Prerequisite: PSc 231. Fall semesters.

PSc 342 Public Opinion and Propaganda *3 semester hours*

A study of the dynamics of the public opinion process and the role of public opinion in democratic and non-democratic political systems. Attention is given to the mass media, the techniques and effects of propaganda, problems in public opinion and electoral measurement and problems of prediction. The course also touches upon problems such as the conformity to public opinion, the "mass mind", the tyranny of the majority and censorship. A discussion is included on the competence of public opinion adequately to discharge its responsibilities in a free society. Prerequisite: PSc 201 or PSc 231. Spring semesters.

PSc 343 Municipal Government *3 semester hours*

Concentrated study of urban municipal government: Development of cities and urban areas, law of municipal corporations, state-local-national relations, politics of urban areas, functional services of urban governments, and role of special districts. Proposals for improvement of urban municipal government. Prerequisite: PSc 331 or consent of instructor. Fall semesters.

PSc 400 Senior Seminar in Political Science *3 semester hours*

Research in political science. Emphasis on methodology, bibliography, and presentation, both oral and written. The research paper written for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all political science majors. Substitutes for SSc 400.

PSc 410 Independent Studies in Political Science *1 to 3 semester hours*

Special research projects, reports, readings in political science. Open to seniors only. Prerequisite: permission of department chairman.

Sociology

Soc 231 Introduction to Sociology *3 semester hours*

A basic course in sociology dealing with the interaction arising from the association of human beings. Emphasis is placed upon natural and social heritage, the meaning and functions of culture, the origin, function, and characteristics of social institutions, such as family, religion, and the state; inquiry into the nature and genesis of social pathology. Both semesters and summer.

Soc 332 Contemporary Social Problems *3 semester hours*

An advanced course in sociology. It deals with several problems such as poverty, unemployment, crime, divorce, and mental maladjustment. Lectures, reports, and seminar techniques are used. Prerequisite: Soc 231. Spring semesters.

Soc 333 The Family *3 semester hours*

The development of the family and home in its historical, economic, and legal aspects. The various factors influencing the organization, disorganization, and reorganization, of the family are considered, as well as the modern trends in this basic institution. Both semesters and summer.

Soc 334 Juvenile Delinquency *3 semester hours*

The purpose of this course is to meet the needs of those interested in the areas of delinquency, probation, child care and community recreation. The functions of the family, neighborhood, and community will be discussed together with the dangers of social disorganization inherent in our institutions. The social treatment such as character building agencies, probation, and reform schools will be reviewed. The work of the juvenile court process, the child guidance clinic, and counseling will be analyzed. Prerequisite: Soc 231. Spring semesters.

Soc 335 Racial and Cultural Minorities *3 semester hours*

The history of immigration to America; problems of assimilation for minority groups such as American Indians, Mexican Americans, Puerto Ricans, and American Negroes; the meaning, responses and reduction of prejudice and discrimination. Prerequisite: Soc 231. Fall semesters.

Soc 336 Urban Sociology *3 semester hours*

This course deals with the development of the modern city and metropolitan areas; the differentiation of functions; city complexity; demographic characteristics; ecological and social organization; city planning and the city as a way of life with emphasis upon present day reorganization, growth and improvement. Prerequisite: Soc 231. Fall semesters.

Soc 337 Sociological Theory *3 semester hours*

A survey of both historical and contemporary theories of society and social behavior, emphasizing the logic of systematic theory construction, and the relationship between theoretical models and empirical research as they are appropriate in substantive fields of sociology. Prerequisite: Soc 231. Fall semesters.

Soc 338 Criminology *3 semester hours*

A presentation of the development of criminology as a discipline, with an analysis of contemporary theories and empirical research related to the systematic study of the causation and prevention of criminal behavior. Prerequisite: Soc 231. Spring semesters.

Soc 339 Social Stratification *3 semester hours*

An examination of the classic theories of stratification (Marx, and other theorists, classical and modern) leading to an intensive analysis of stratification in contemporary societies, with an emphasis on the impact of class membership on individual behavior. Prerequisite: Soc 231. Fall semesters.

Soc 340 Introduction to Social Work *3 semester hours*

A discussion of the history, development, and theory of social case work, group work and community organization. Prerequisite: Soc 231. Fall semesters.

Soc 400 Senior Seminar in Sociology *3 semester hours*

Research in sociology. Emphasis on methodology, bibliography, and presentation, both oral and written. The research paper written for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all sociology majors. Substitutes for SSc 400.

Soc 410 Independent Studies in Sociology
1 to 3 semester hours

Special research projects, reports, readings in sociology. Open to seniors only. Prerequisite: permission of department chairman.

Extension Work

Extension courses permitted in the four-year curriculums for the preparation of teachers of the public schools:

1. The college adheres to the regulations set up by the American Association of Colleges for Teacher Education. A committee of this Association has recommended that extension credits be limited to thirty-two semester hours in the four-year curricula;
2. Any course in the four-year curricula may be offered by the State Colleges subject to the standards approved by the State Council of Education;
3. Credit for equivalent courses given by other institutions may be given subject to the thirty-two semester hour limit and provided the courses have been given in accord with the standards of the State Council of Education;
4. All instructors of extension classes must be regularly-selected members of the faculty, and the names of all such persons employed must appear in the regular catalog as members of the faculty.
5. Extension credits previous to June 1, 1941, shall be in accord with the limited list in effect at that time.

College Courses for Teachers

Each semester a number of courses may be offered in the evenings and on Saturday mornings. These courses are planned for teachers in service who wish to continue their work toward a degree. The courses given are selected from the several curriculums and are chosen with the idea of accommodating as many teachers as possible.

The cost of these courses is at the rate of $12.50 per semester hour of credit for legal residents of Pennsylvania. A minimum basic fee of $37.50 will be charged. For out-of-state students the rate is $20 per semester hour (minimum basic fee—$60).

Not more than six semester hours of credit will be allowed for courses completed in any one semester by a student who during such term, is a regularly employed full-time teacher.

The College gladly welcomes any suggestions for courses to be offered evenings and Saturdays. Such requests should be mailed to the Dean of Undergraduate Studies.

Graduate Studies

West Chester began offering graduate studies in the fall of 1959 and now provides a full-time program of graduate studies during the regular college year and summer sessions. Classes are scheduled for

late afternoons, evenings, and Saturdays during the fall and spring semesters.

The graduate program provides for specialization leading to the Master of Education degree in the following fields: biology, chemistry, elementary education, English, foreign languages (French, German, Spanish), geography, guidance, health and physical education, mathematics, music education, physical science, social sciences, and physics (pending Department of Instruction approval). An approved program in audio-visual education (educational media specialist) leading to certification is also offered.

The total graduate enrollment for the 1966 fall semester was 1,056, of whom 43 were full-time students. Since 1961, 273 graduate students have received Master of Education degrees from the College.

The graduate program is designed especially for the in-service teacher, and the outlook for the immediate future is that it will continue to be a part-time program in the spring and fall semesters and a full-time program in the summer sessions. It provides in-service teachers with an opportunity to secure permanent certification and earn the Master of Education degree with no interruption in teaching assignments. It also permits them to improve their position on salary schedules which recognize graduate study.

A special Graduate Studies Bulletin, course offerings, and other information regarding the graduate program may be secured by writing the Dean of Graduate Studies.

Summer Sessions

West Chester State College offers a program of study for both undergraduates and graduates at summer sessions extending through twelve weeks. The sessions are divided into three periods: the Pre Session of three weeks, the Regular Session of six weeks, and the Post Session of three weeks.

No student will be allowed to secure more credits than the number of weeks in a session except by special permission of the Dean of Undergraduate Studies (for undergraduates) or the Dean of Graduate Studies (for graduates).

Detailed information about the Undergraduate Studies summer program may be obtained from the Director of Summer Sessions. Requests for similar information about Graduate Studies should be directed to the Dean of Graduate Studies. In either case the address is West Chester State College, West Chester, Pennsylvania 19380.

In its Normal School years, West Chester pioneered in developing summer-session programs for teachers. Its first summer session, held from July 11 to August 8, 1877, was one of the country's earliest experiments with summer programs at normal schools. Conducted under the principalship of George L. Maris, the session offered elocution, industrial drawing and natural science. Board and tuition for the four weeks came to $30. The program proved so popular that, on August 6, as it drew to its end, the attending teachers published a resolution in West Chester's "Daily Local News," urging its continuation in future years.

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* Sabbatical Leave — Fall, 1966
** Sabbatical Leave — Spring, 1968

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ELIZABETH C. GRIFFITH ..... Chief Payroll Clerk
SARA Y. BAXTER ..... Head Accountant
HANNAHBELLE T. MORRISON ..... Senior Clerk
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ASHMORE P. MARCH ..... Grounds Foreman
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S. LOUISE PHIEL ..... Secretary to the Director of Facilities Development and Management

Faculty

EARL F. SYKES (1938) *President*
B.A., M.A., Montana University; Ed.D., Columbia University.

MARY ELLEN ALLEN (1966) *Field Consultant*
Language Project
Instructor
B.B.A., Loyola University; Tulane University; University of Paris; University of North Carolina; Southern Connecticut State College.

LOIS W. ALT (1966) *Assistant Professor of Music*
B.S., Indiana State College; B.M., University of Michigan; Allegheny College; M.M., University of Michigan; University of Southern Florida; University of Michigan.

LOIS E. ANDERSON (1966) *Associate Professor of Music*
B.A., Augustana College; M.A., University of Denver; S.M.M., Union Theological Seminary School of Sacred Music.

ALEXANDER ANTONOWICH (1945)
Vice-Chairman, Music Department
Professor of Music
Institute of Musical Art; B.S., Juilliard School of Music; M.A., Ed.D., Columbia University.

ELEANOR W. ASHKENAZ (1965) *Associate Professor of Biology*
B.S., Ph.D., University of Pennsylvania.

DOROTHY D. BAILEY (1958) *Professor of English*
B.A., Our Lady of the Lake College; M.A., University of Texas; Ph.D., University of Wisconsin.

*MICHAEL F. BANNON (1955) *Professor of Education*
B.S., State College, Troy, Alabama; M.A., Columbia University; Ed.D., George Peabody College for Teachers.

PAUL A. BANYACSKI (1965) *Assistant Professor of Philosophy*
B.A., Eastern Baptist College; Eastern Baptist Seminary; Bryn Mawr College.

EDWARD A. BARROW (1956) *Associate Professor of Music*
B.Mus., M.Mus., Eastman School of Music, University of Rochester; West Virginia University.

LUTHER R. BARTH (1964) *Associate Professor of Education*
B.S., Pennsylvania State University; M.Ed., Loyola University.

ROBERT M. BEDFORD (1966) *Assistant Professor of Music*
B.M., M.S., Juilliard School of Music.

HUGH C. BELL (1966) *Associate Professor of Mathematics*
B.S. in Ed., Youngstown University; Kent State University; M.A.T., Duke University; University of Michigan; U. S. Navy Electronics Technical School.

ELIZABETH B. BEATTY (1960) *Assistant Professor of Music*
B.Mus., University of Michigan; Curtis Institute of Music; Ed.M., Temple University.

* Sabbatical Leave, 1966-67

HAROLD W. BENDA (1956) *Chairman, Education Department*
Professor of Education
B.A., Iowa State Teachers College; M.A., University of Iowa; Ed.D., New York University.

*WILLIAM R. BENNER (1938)
Assistant to the Dean of Student Affairs
Assistant Professor
B.S., West Chester State College; M.A., Temple University.

*BERNICE H. BERNATZ (1954) *Dean of Women*
Associate Professor
B.A., Iowa State Teachers College; M.A., University of Michigan.

ROBERT W. BERNHARDT (1965) *Associate Professor of Biology*
B.S., M.S., State University College of Forestry; University of Massachusetts.

THOMAS E. BERRY (1946) *Professor of English*
A.B., A.M., University of Pennsylvania; Ph.D., University of Pittsburgh.

FLOYD R. BIELSKI (1961) *Associate Professor of Geography*
B.S., Indiana State College; M.A., University of Illinois; Pennsylvania State University.

JAMES A. BINNEY (1947) *Professor of English*
Clarion State College; B.A., Pennsylvania State University; M.A., Ph.D., University of Pittsburgh.

WALTER R. BLAIR (1966)
Assistant Professor of Health and Physical Education
B.S., West Chester State College; M.Ed., Temple University; Bucknell University; Temple University.

LLOYD W. BLACK (1960)
Assistant to the Director of Facilities Development and Management
Assistant Professor
B.S., M.S., Temple University; Post Master's, Temple University.

*MARY M. BLISS (1952) *Assistant Professor of Science*
A.B., Swarthmore College; M.S., Temple University.

RICHARD A. BOERLIN (1961) *Assistant Professor of Music*
B.S., M.S., University of Illinois; Pennsylvania State University.

AUDREY BOOKSPAN (1966)
Instructor of Health and Physical Education
Hunter College; B.A., Adelphi University; Juilliard School of Dance; Martha Graham School of Contemporary Dance.

JOHN BOSWORTH-FLING (1965) *Associate Professor of English*
A.B., West Virginia University; M.A., Columbia University; M.S.J., Northwestern University; Post Master's, Harvard University.

EVA F. BOURGEOIS (1964) *Lecturer, Education*
B.S., West Chester State College; Ed.M., Temple University.

* Sabbatical Leave, Spring, 1968

RICHARD E. L. BRADSHAW (1964)
Assistant Professor of History
B.A., Kenyon College; M.A., University of Pennsylvania.

HAROLD BRAM (1965) *Assistant Professor of Sociology*
B.A., M.A., University of New Mexico; University of Pennsylvania.

RICHARD G. BRANTON (1962)
Associate Professor of Mathematics
B.S., West Chester State College; M.S., University of Delaware; University of Pennsylvania; Villanova University.

JUSTO B. BRAVO (1964) *Professor of Chemistry*
B.S., Adamson University, Manila; Ph.D., University of Kansas.

TYRONE BREUNINGER (1965) *Instructor of Music*
B.S., West Chester State College; Temple University.

FREDERICK R. BROWN (1965) *Assistant Professor of Music*
B.S., Kutztown State College; M.Mus., Philadelphia Musical Academy; Temple University.

ROGER J. BROWN (1966) *Resident Director*
Junior Year Abroad
B.S. in Ed., West Chester State College; West Chester State College; Wells College; University of Delaware.

JOSEPH P. BROWNE (1966) *Associate Professor of English*
St. Jerome's College of the University of Ottawa; B.S., St. Joseph's College; M.A., University of Pennsylvania; University of Pennsylvania.

LEONA W. BROWNELL (1966) *Assistant Professor of Science*
B.A., Iowa State Teachers College; Washington University; M.S., University of Wisconsin; George Washington University; Columbia University; State University of Iowa; Harvard School of Public Health; Boston University; Ph.D., University of Delaware.

WILLIAM J. BRUEHL (1960) *Professor of English*
B.S., West Chester State College; M.A., University of Pennsylvania; Hofstra College; Ph.D., University of Pennsylvania.

STELLA E. BRUTON (1964) *Associate Professor of English*
A.B., M.A., Stanford University; University of North Carolina; West Chester State College.

CLEON F. BUCK (1966) *Supervisor of Student Teaching*
Assistant Professor of Education
B.S., Bucknell University; M.S. in Ed., University of Pennsylvania.

WALTER E. BUECHELE, JR. (1962)
Assistant Professor of Education
B.S., West Chester State College; Ed.M., Temple University.

WILLIAM F. BURNS (1964)
Associate Professor of Political Science
B.A., Allegheny College; M.A., Western Reserve University; University of Pennsylvania.

ANTHONY W. BURTON (1965)
Assistant Professor of Political Science
B.A., Brigham Young University; M.A., University of Pennsylvania; Brigham Young University; University of Pennsylvania.

J. WILLIAM BUTLER (1966)
Assistant Professor of Health and Physical Education
B.S. in Ed., West Chester State College; M.Ed., Pennsylvania State University.

ROBERT L. CARL (1946) *Assistant Professor of Music*
B.S., Johns Hopkins University; B.Mus., M.Mus., Peabody Conservatory of Music.

ROBERT E. CARLSON (1961) *Professor of History*
B.A., M.A., Ph.D., University of Pittsburgh.

CECILY G. CARMICHAEL (1962) *Assistant Librarian*
Instructor
B.S., Simmons College.

CAROLYN J. CARR (1966) *Associate Professor of Education*
B.S. in Ed., Millersville State College; Ed.M., Temple University; Teachers College, Columbia University.

*PAUL E. CARSON (1946) *Associate Professor of Music*
B.S., Central Missouri State College; M.F.A., Carnegie Institute of Technology; Professional Diploma, T.C., Columbia University.

GERALD B. CARTRIGHT (1961)
Principal of Demonstration School
Associate Professor of Education
B.S., Lock Haven State College; M.Ed., Pennsylvania State University; Post Master's, Pennsylvania State University.

LOUIS ANTHONY CASCIATO (1963)
Associate Professor of Science
B.S., St. Joseph's College; M.S., Villanova University; University of Pennsylvania.

CONRAD E. CHALICK (1962) *Demonstration School*
Instructor of Education
B.A., Pennsylvania Military College; Temple University.

FRANK T. CHEESMAN (1947) *Professor of Music*
Conservatory of Music, Toronto, Canada; B.M.Ed., B.Mus., M.Mus., Northwestern University; Ed.D., Columbia University.

KATHRYN F. CHILDS (1965) *Lecturer, Mathematics*
B.S., West Chester State College; M.S., University of Pennsylvania; Rutgers University.

**CARMELA N. CINQUINA (1963) *Assistant Professor of Biology*
B.S., West Chester State College; Temple University; Johns Hopkins University; M.S., Villanova University; Rutgers University.

* Sabbatical Leave, Fall, 1966
** Leave of Absence, 1966-67

GEORGE S. CLAGHORN (1963)
Chairman of Philosophy Department
Professor of Philosophy
B.A., University of Chattanooga; Ph.D., University of Pennsylvania; Columbia University.

JOYZELLE CLARK (1965) *Associate Professor of Education*
B.A., Ed.M., University of Buffalo; Pennsylvania State University; Gettysburg College; University of Pennsylvania.

MARY GRAY CLARKE (1964) *Associate Professor of Music*
B.M., M.M., Manhattan School of Music; M.A., University of North Carolina.

DOROTHY J. CLAUSER (1966) *Assistant Professor of Education*
B.S. in Ed., Kutztown State College; Temple University; M.Ed., Kutztown State College; Lehigh University.

JOHN W. CLOKEY (1946) *Chairman of English Department*
Professor of English
B.S., West Chester State College; Ed.M., Temple University; Post Master's, Temple University.

*BARBARA J. COATES (1954)
Associate Professor of Health and Physical Education
B.S., Lock Haven State College; M.A., Allegheny College.

NORMAN A. COCHRAN (1956)
Professor of Health and Physical Education
B.S., West Chester State College; M.A., Ed.D., University of Maryland.

RICHARD C. COHOES (1965)
Associate Professor of Mathematics
A.B., A.M., Columbia University; M.A., Columbia University; New York University.

ANA R. COLLADO (1965)
Assistant Professor of Romance Languages
Doctor of Pedagogy, University of Havana; Orbon Conservatory; Ankerman Conservatory.

FAYE A. COLLICOTT (1929) *Assistant Librarian*
Associate Professor
A.B., Simpson College; B.S., Columbia University; A.M., Columbia University.

STELLA F. CONAWAY (1966) *Assistant Professor of Music*
B.M., Philadelphia Conservatory of Music; Philadelphia Musical Academy; M.M., Philadelphia Conservatory of Music; Philadelphia Business College.

WAYNE E. CONAWAY (1963) *Assistant Professor of Music*
B.Mus., M.Mus., Philadelphia Musical Academy.

GERALDINE C. CONBEER (1946) *Assistant Librarian*
Associate Professor
B.S., Millersville State College; B.S., Drexel Institute of Technology; M.Ed., University of Pittsburgh.

PHYLLIS S. COOPER (1964)
Instructor of Health and Physical Education
B.S., University of Maryland; Post Bachelor's, University of Maryland.

*Sabbatical Leave, Fall, 1967

WILLIAM F. COPE (1963) *Associate Professor of English*
B.F.A., University of Oklahoma; M.A., Columbia University; State University of Iowa; Biarritz American University, France.

THOMAS J. CORR (1966) *Associate Professor of English*
A.B., St. Joseph's College; M.A., John Carroll University; Duquesne University.

EDWIN B. COTTRELL (1955)
Vice-Chairman, Health and Physical Education Department
Professor of Health and Physical Education
B.S., Slippery Rock State College; M.Ed., University of Pittsburgh; Ed.D., Pennsylvania State University.

MARGARET G. CULLEN (1964) *Associate Professor of Biology*
B.S., M.A., Kent State University; University of Pennsylvania.

MANUEL DARKATSH (1966) *Supervisor of Student Teaching*
Associate Professor of Education
B.S. in Ed., Temple University; M.A., Columbia University; Columbia University; Temple University.

ALVIN B. DAVIS (1948)
Associate Professor of Health and Physical Education
B.S., Panzer College; M.A., Montclair State College.

RONALD N. DEFINO (1965) *Assistant Professor of Art*
B.S., Philadelphia Museum College of Art; M.F.A., Temple University.

HARRY H. DEISCHER (1966) *Supervisor of Student Teaching*
Associate Professor of Education
B.S., M.A., M.S., University of Pennsylvania; University of Pennsylvania.

BACHUBHAI M. DESAI (1965) *Assistant Librarian*
Instructor
B.A., Baroda College, Baroda; Bombay University, Bombay, India; M.S.L.A., Villanova University.

FLORENCE B. DIMARCO (1961) *Demonstration School*
Assistant Professor of Education
B.Ed., Pennsylvania State University.

PHILIP DONLEY (1965)
Associate Professor of Health and Physical Education
B.S., M.S., West Virginia University; D. T. Watson School of Physiatrics.

JOHN E. C. DORCHESTER (1961)
Vice-Chairman of the Department of Sciences
Professor of Biology
B.A., M.A., University of British Columbia; Ph.D., University of Toronto.

RAYMOND A. DOYLE (1965) *Instructor of Social Sciences*
B.S., West Chester State College; University of Delaware.

ROBERT E. DRAYER (1964) *Assistant Professor of History*
A.B., A.M., Ph.D., University of Pennsylvania.

GERTRUDE A. DUNN (1966)
Instructor of Health and Physical Education
B.S., West Chester State College.

STEPHEN DZURANIN, SR. (1966)
Associate Professor of Science
B.S. in Ed., Indiana State College; Carnegie Institute of Technology; William M. Davidson College Center; University of Delaware; M.Ed., University of Pittsburgh.

RALPH A. EISENSTADT (1965) *Field Consultant*
Language Project
Assistant Professor
B.A., University of Pennsylvania; M.A., University of Illinois; Princeton University.

HAYDEE O. P. ERN (1965) *Lecturer of Computer Science*
Lecturer of Mathematics
Mechanical and Electrical Engineer, La Plata University, La Plata, Buenos Aires, Argentina; Aeronautical Engineer, La Plata University; Master of Engineering, Yale University.

*MARK M. EVANS (1947) *Director of Student Teaching*
Professor
B.Ph., Dickinson College; M.Ed., Ph.D., University of Pittsburgh.

N. DEAN EVANS (1965) *Area Curriculum Coordinator*
Professor
A.B., Ursinus College; M.S., University of Pennsylvania; Ed.D., Temple University.

EDWARD G. EVERETT (1954) *Professor of History*
B.S., Indiana State College; M.A., Ph.D., University of Pittsburgh.

ELIZABETH J. FEIN (1966) *Lecturer, Science*
R.N., Flower Fifth Avenue Hospital; B.S., West Chester State College.

RUTH C. FELDMAN (1966) *Lecturer, Education*
Western Reserve University; B.A., M.A., Ohio State University; Western Reserve University; Ed.D., Temple University.

ALBERT E. FILANO (1956)
Chairman of Mathematics Department
Professor of Mathematics
B.S., M.S., University of Pennsylvania; Ph.D., Pennsylvania State University.

JOSEPH R. FINK (1966) *Lecturer, Social Sciences*
A.A., Trenton Junior College; B.A., Rider College; M.A., Rutgers University; Rutgers University.

BYRON Y. FLECK (1953)
Chairman of Department of Social Sciences
Professor of History and Political Science
Franklin and Marshall College; B.A., M.A., Ph.D., University of Iowa.

ARNOLD FLETCHER (1946)
Dean of Faculty and Academic Affairs
Professor
B.S., Ed.M., Temple University; Juilliard School of Music; Columbia University; Ed.D., University of Pennsylvania.

* Sabbatical Leave, Fall, 1966

FRANK B. FORD (1965) *Assistant Professor of English*
B.A., M.A., University of Connecticut.

VIRGINIA A. FORSYTH (1966)
Instructor of Health and Physical Education
B.S. in Ed., West Chester State College.

THOMAS J. FRANCELLA (1965)
Assistant Professor of Education
A.B., Syracuse University; M.A., Villanova University.

HOWARD FREEMAN (1961) *Associate Professor of Education*
B.S., Millersville State College; M.A., University of Wyoming; University of Pennsylvania.

WALTER E. FRIEMAN, JR. (1961)
Associate Professor of Classical Languages
B.S., New York University; S.T.B., General Theological Seminary; S.T.M., Philadelphia Divinity School; Th.D., Philadelphia Divinity School.

WALTER E. FUNK (1966)
Assistant Professor of Health and Physical Education
B.S., Pennsylvania State University; University of Pennsylvania; M.Ed., University of Delaware.

JOHN J. FURLOW (1961)
Assistant Professor of Health and Physical Education
B.S., West Chester State College; Temple University; M.Ed., West Chester State College; Pennsylvania State University.

CHARLES D. GANGEMI (1961) *Associate Professor of Music*
B.A., M.A., University of Pennsylvania.

WILLIAM N. GARRETT (1966) *Associate Professor of English*
Swarthmore College; A.B., Columbia University; Ph.D., Columbia University.

LOIS L. GERCHMAN (1966) *Assistant Professor of Science*
Drew University; B.A., Harpur College; M.Ed., Temple University; University of Pennsylvania.

EDWARD B. GERMAN (1966) *Supervisor of Student Teaching*
Assistant Professor of Education
B.S., Kutztown State College; University of Pennsylvania; M.Ed., Temple University; Temple University.

MARGARET E. GILES (1964) *Instructor of English*
B.S., Gettysburg College; M.A., Johns Hopkins University.

ARLINE E. GINGOLD (1966) *Lecturer, Social Science*
B.A., Cornell University; Cornell University; M.A., Temple University; Temple University.

LOUISE S. GIUNTA (1963)
Instructor of Health and Physical Education
B.S., West Chester State College; Temple University.

DUSAN P. GLUMAC (1963)
Associate Professor of Slavic Languages
M.Div., M.S., M.A., University of Belgrade; University of Pennsylvania.

CHARLES W. GOOD (1966) *Supervisor of Student Teaching*
Associate Professor of Education
B.A., Pennsylvania State University; M.A., University of Pennsylvania; Temple University.

CHARLOTTE M. GOOD (1965) *Associate Professor of Education*
B.S., Bucknell University; M.Ed., Pennsylvania State University; Temple University; University of Hawaii; University of Chicago.

HENRY E. GOODWIN (1960)
Associate Professor of Health and Physical Education
B.S., Lock Haven State College; M.S., Pennsylvania State University; Post Master's, Pennsylvania State University.

*MIRIAM S. GOTTLIEB (1946) *Associate Professor of Music*
A.B., University of Denver; M.A., Columbia University; Juilliard School of Music.

RONALD L. GOTTSHALL (1966) *Assistant Dean of Men*
Associate Professor of Guidance and Counseling
B.S., Shippensburg State College; M.A., Michigan State University; Michigan State University.

JOHN H. GRAFTON (1961) *Demonstration School*
Assistant Professor of Education
B.S., West Chester State College; M.A., Scarritt College; Temple University.

SAUL H. GREENBERG (1963) *Associate Professor of Education*
B.S., M.Ed., Pennsylvania State University; Gallaudet College; Rutgers University; Temple University.

SEYMOUR S. GREENBERG (1964)
Associate Professor of Geology
B.S., Brooklyn College; A.M., Ph.D., Indiana University.

MILDRED L. GREENWOOD (1965)
Assistant Professor of Health and Physical Education
A.B., Wheaton College; M.Ed., Temple University; Temple University; Penn State Extension.

THELMA J. GREENWOOD (1922) *Assistant Professor of Science*
B.S., M.A., New York University.

**CATHERINE E. GREGG (1954) *Professor of Education*
B.A., Oberlin College; M.A., Western Reserve University; Ph.D., Columbia University.

ALICE B. GRIFFIN (1965) *Assistant Professor of English*
A.B., University of Delaware; A.M., University of Maryland; Ph.D., University of Pennsylvania.

YVONNE GROS (1963)
Instructor of Health and Physical Education
B.S., Ursinus College.

TERRY E. GUIDETTI (1966) *Assistant Professor of Music*
Joliet Junior College; B.M.E., M.M., Northwestern University; Indiana University.

MADELYN GUTWIRTH (1966) *Associate Professor of French*
B.A., Brooklyn College; M.A., Ph.D., Bryn Mawr College.

* Sabbatical Leave, Spring, 1967
**Sabbatical Leave, Spring, 1968

PATRICIA L. GYSLING (1966) *Lecturer, Mathematics*
B.A., Pennsylvania State University; Pennsylvania State University; M.A., University of Michigan.

ETHEL G. HAAS (1953) *Associate Professor of Education*
B.S., Plattsburgh State Teachers College; M.Ed., University of Maryland; Post Master's, University of Maryland; University of Pennsylvania.

JAMES E. HABECKER (1964) *Associate Professor of Education*
A.B., Franklin and Marshall College; M.Ed., Western Maryland College; Pennsylvania State University; University of Pennsylvania.

HELEN E. HALES (1962) *Assistant Professor of Music*
B.Mus., Peabody Conservatory of Music; Johns Hopkins University; M.Mus., Peabody Conservatory of Music; Temple University.

ALBERT B. HALLEY (1966) *Professor of English*
Lipscomb College; B.A., Marshall University; A.M., Harvard University; Vanderbilt University; University of Zurich, Switzerland; M.A., University of Michigan; Ph.D., University of Cincinnati.

H. THEODORE HALLMAN (1950) *Chairman of Art Department*
Professor of Art
Philadelphia Museum School of Fine Art; B.F.A., B.S., M.F.A., Temple University; Tyler School of Fine Arts.

WALKER HAMILTON, JR. (1965)
Assistant Professor of English
A.B., University of Pennsylvania; A.M., University of Pennsylvania.

JOSEPHINE C. HAMPSON (1963)
Assistant Librarian, Instructor
B.S., West Chester State College; Philadelphia Museum School of Art; Drexel Institute of Technology.

ROBERT C. HANNUM (1966)
Director of Facilities Development and Management
Assistant Professor
B.S., Michigan State University; M.S., University of Pittsburgh.

*CLIFFORD H. HARDING (1953)
Professor of History and Political Science
A.B., Nebraska State College; M.A., State University of Iowa; Ph.D., New York University.

ROBERT W. HAWKES (1962) *Associate Professor of Physics*
B.S., West Chester State College; M.S., Pennsylvania State University; University of Delaware.

ARTHUR S. HAWTHORNE (1949)
Associate Professor of Geography
B.S., California State College; M.A., University of Pittsburgh; Post Master's, University of Pittsburgh.

JACK G. HAWTHORNE (1965) *Assistant Professor of Art*
B.A., Philadelphia College of Art; M.S. in Ed., M.F.A., University of Pennsylvania.

* Sabbatical Leave, 1967-68

PHYLLIS J. HAYS (1966) *Associate Professor of Music*
B.M., M.M., Peabody Conservatory of Music; Peabody Conservatory of Music; Indiana University; Johns Hopkins University.

*JOHN J. HEIM (1961)
Associate Professor of Health and Physical Education
B.S., M.Ed., University of Delaware; Columbia University; Temple University.

FRANK Q. HELMS (1966) *Director of Library Services*
Associate Professor
B.A., University of Delaware; M.L.S., Rutgers University; Rutgers University.

WILLIAM H. HENRY, JR. (1960) *Associate Professor of English*
A.B., University of Pennsylvania; Ed.M., A.M., Temple University.

ROBERT W. HERRES (1961) *Associate Professor of Education*
B.S., Oswego State Teachers College; M.A., Syracuse University; Columbia University; New York University; University of Virginia.

MILTON E. HERSHEY (1966)
Lecturer, Health and Physical Education
B.S. in Ed., West Chester State College; West Chester State College.

**JULIUS M. HILL (1955) *Professor of Education*
B.S., Northern Michigan College of Education; M.A., Ph.D., University of Michigan.

PERRY F. HOBERG (1965) *Assistant Professor of Art*
B.F.A., B.S.Ed., Pennsylvania Academy of Fine Arts; Tyler School of Fine Arts; M.A., University of Delaware.

SCOTT H. HOCKENBERRY (1966) *Specialist in Publications*
Instructor of English
Johns Hopkins University; B.A., American University; M.A., American University.

JOHN HOLINGJAK, JR. (1965) *Supervisor of Student Teaching*
Associate Professor of Education
B.S., Kutztown State College; Ed.M., Temple University; University of Pennsylvania.

ANTHONY B. HOPKINS (1960)
Assistant Professor of Health and Physical Education
B.S., M.S., Springfield College.

WILLIAM P. HOUPT (1963) *Director of Public Relations*
Professor of History
A.B., M.A., (History), M.A., (Literature), Ph.D., University of Pennsylvania.

LAWRENCE V. IACONO (1966) *Instructor of Social Sciences*
B.S., St. Joseph's College; West Chester State College.

FLORENCE B. INGHRAM (1960) *Assistant Dean of Women*
Assistant Professor
B.A., State University of Iowa; M.A., Columbia University; Claremont Graduate College.

* On Leave of Absence, 1966-67
**Sabbatical Leave, Spring, 1968

HELEN T. IVINS (1946) *Assistant Professor of History*
B.S., West Chester State College; M.S., University of Pennsylvania.

SUZANNE T. JACOBS (1962) *Assistant Professor of English*
A.B., University of Pennsylvania; Ed.M., Temple University; Pennsylvania State University; Delaware University.

FREDERICK JACOBSON (1965) *Assistant Professor of Physics*
B.A., LaSalle College; Ed.M., Temple University.

*CONSTANTINE JOHNS (1954) *Professor of Music*
B.S., Southeast Missouri State Teachers College; M.A., Ed.D., Columbia University.

PATRICIA C. JOHNSON (1966) *Associate Professor of History*
B.A., Chestnut Hill College; Ph.D., University of Rochester.

HARRY G. JONES (1960) *Assistant Professor of Science*
B.S., Millersville State College; M.S., University of Pennsylvania.

RUBY J. JONES (1961) *Demonstration School*
Assistant Professor of Education
B.S., West Chester State College; M.A., Temple University; University of Pennsylvania.

LEAH E. JORDAN (1962) *Professor of English*
B.A., Swarthmore College; M.A., Ph.D., University of Pennsylvania.

GEORGE F. KANE (1966)
Assistant to the Director of Guidance and Counseling
Associate Professor
B.S., Ursinus College; M.Ed., Temple University; Temple University; University of Pennsylvania.

SALVADOR C. KAPUNAN (1966)
Assistant Professor of Philosophy
B.A., San Jose Seminary, Philippines; M.A., San Jose Graduate School, Philippines; Ph.D., University of St. Tomas, Philippines; New York University.

**ALVIN S. KEINARD (1948)
Chairman of Geography Department
Professor of Geography
B.A., Juniata College; M.Ed., Ed.D., Pennsylvania State University.

ANNE S. KELLY (1952) *Lecturer, Music*
B.A., Academy of Vocal Arts.

AMMON G. KERSHNER, JR. (1965)
Associate Professor of English
B.S., M.S., A.M., Ph.D., University of Pennsylvania; Temple University.

W. GLENN KILLINGER (1934) *Dean of Men*
Assistant Professor
B.S., Pennsylvania State University; M.A., Columbia University; D.S., Gettysburg College.

* Sabbatical Leave, Fall, 1966
**Sabbatical Leave, Spring, 1967

*CHARLOTTE E. KING (1955) *Professor of Education*
B.S., Ed.M., Ed.D., Temple University.

EUGENE C. KOLACKI (1963)
Associate Professor of Health and Physical Education
B.S., Brockport State College; M.S., Washington State University; University of Buffalo.

ROMAN KOS (1966) *Assistant Librarian*
Assistant Professor
Bachelor's degree, University of Poznan; Master's degree, University of Erlangen; Ph.D., Ukrainian University, Munich; M.S.L.S., Western Reserve University.

ABE S. KRAMER (1966) *Professor of Education*
B.A., M.A., Ph.D., New York University.

FRITZ K. KRUEGER (1961) *Assistant Professor of Music*
A.B., Midland College; B.S., B.Mus., Wittenberg University; B.Mus., Curtis Institute of Music; M.Mus., Philadelphia Musical Academy.

ALLA S. KUHLMANN (1965)
Associate Professor of Romance Languages
M.A., University of Belgrade, Yugoslavia; Universite Catholique de Louvain, Belgium; University of Pennsylvania.

ALOIS H. KULHANEK (1961) *Assistant Professor of German*
B.S., Institute of Technology, Prague; M.A., University of Political and Social Science, Prague; Charles University, Prague.

MARIANNE H. KULASKI (1966)
Instructor of Romance Languages
B.A., Ursinus College; University of Geneva, Switzerland; Villanova University.

CARRIE C. KULP (1958) *Assistant Professor of Education*
A.B., Wheaton College; M.Ed., University of Delaware; University of Pennsylvania.

NELSON B. LAIR (1966) *Lecturer, Science*
B.S., College of William and Mary; West Chester State College.

JOHN A. LANDER (1965) *Associate Professor of Education*
B.A., A.M., Temple University; Ph.D., University of Pennsylvania.

WILLIAM R. LANDRUM (1953) *Associate Professor of English*
B.A., Virginia Military Institute; M.A., Temple University; University of Oklahoma.

GEORGE L. LANGDON (1956) *Professor of Geography*
B.S., M.S., Pennsylvania State University; Ph.D., Clark University.

F. WILLIAM LEEDS (1963)
Assistant to the Dean of Faculty and Academic Affairs
Associate Professor
A.B., Temple University; M.A., University of Pennsylvania; Post Master's, University of Pennsylvania.

* Sabbatical Leave, Fall, 1966

BARBARA R. LEIGHTON (1966)
Instructor of Health and Physical Education
B.S., West Chester State College; West Chester State College.

JOHN D. LEMCKE (1965)
Associate Professor of Health and Physical Education
B.S., Brockport State College; M.Ed., Temple University; Temple University.

BARNEY F. LE VEAU (1966)
Assistant Professor of Health and Physical Education
B.S., Colorado University; R.P.T., Mayo Clinic; M.S., University of Colorado; University of Colorado.

RONALD P. LOMBARDI (1962)
Associate Professor of Romance Languages
B.S., M.A., University of Pennsylvania; University of Pennsylvania; Teachers College of Connecticut.

ROBERT C. LONG (1964)
Associate Professor of Health and Physical Education
B.S., Ed.M., Temple University; Pennsylvania State University; University of Pennsylvania.

MELVIN M. LORBACK (1957)
Associate Professor of Health and Physical Education
B.S., State College, Brockport, N. Y.; M.S., Pennsylvania State University; Post Master's, Pennsylvania State University.

J. BARRY LOVE (1961) *Lecturer, Mathematics*
Hershey Junior College; B.A., M.A., University of Pennsylvania.

THOMAS A. LUEBKING (1962) *Assistant Librarian*
Assistant Professor
A.B., M.S.L.S., Villanova University.

CHARLES W. LYNCH (1965) *Associate Professor of Education*
A.B., Ohio Wesleyan; Harvard University; M.A., Columbia University; M.A., University of Pennsylvania; Rutgers University.

MARGARET W. LYNN (1962) *Assistant Professor of English*
B.S., West Chester State College; M.Ed., Pennsylvania State University; Northwestern University.

E. ISABELLA McCLURE (1965) *Associate Professor of Education*
B.S., M.Ed., Temple University; Temple University; Columbia University; University of Pennsylvania; Stanford University; University of Washington; University of Rhode Island.

ROBERT C. McCREARY (1966)
Lecturer, Health and Physical Education
B.S. in Ed., Temple University; Temple University; West Chester State College.

WILLIAM E. McDONALD (1965) *Field Consultant*
Language Project
Instructor
B.A., Hamilton College.

JAMES M. McDONNELL (1953) *Associate Professor of Biology*
A.B., M.A., Temple University; University of Connecticut.

ELLIOTT W. McDOWELL (1964) *Associate Professor of English*
A.B., Centre College; M.A., University of Wisconsin; Yale University; University of Illinois.

HARRY J. McGROERTY (1966) *Lecturer, Geography*
B.S., M.Ed., West Chester State College; West Chester State College.

DAVID E. McKENTY (1961) *Professor of English*
B.S., Temple University; M.A., University of Pennsylvania; Post Master's, University of Pennsylvania; Ph.D., University of Pennsylvania.

ROBERT D. McKINNEY (1952) *Associate Professor of Art*
B.S., Edinboro State College; M.Ed., Pennsylvania State University; Post Master's, Pennsylvania State University; University of New Hampshire.

CHESTER L. McTAVISH (1965) *Professor of Education*
B.S., Juniata College; M.S., Ed.D., Pennsylvania State University.

PEGGY JANE MACHTLEY (1965) *Assistant Librarian*
Instructor
B.A., Wittenberg University.

SAUNDRA MANBURG (1964) *Assistant Professor of English*
B.A., M.A., Ohio State University.

ELI M. MANDELBAUM (1964)
Associate Professor of Mathematics
B.A., Temple University; M.A., University of Pennsylvania; University of Pennsylvania.

MARY M. MANEVAL (1956) *Professor of Sociology*
B.A., Pennsylvania State University; M.A., Ph.D., University of Michigan.

KATHERINE A. MARGERUM (1959)
Associate Professor of Health and Physical Education
B.S., West Chester State College; Ed.M., Temple University; Post Master's, Temple University; University of Colorado.

EMIL M. MARKOW (1965) *Assistant Professor of Music*
B.S., M.A., Teachers College at Columbia University.

ROLAND H. MAYSON (1963) *Assistant Professor of English*
A.B., Wilmington College; M.A., Kent State University.

ROBERT MELUCCI (1965) *Instructor of Chemistry*
B.S., University of Scranton; M.S., Virginia Polytechnic Institute.

*EMIL H. MESSIKOMER (1946) *Dean of Undergraduate Studies*
Professor
B.S., West Chester State College; M.A., Columbia University; Temple University.

S. POWELL MIDDLETON (1935) *Assistant Professor of Music*
B.S., West Chester State College; M.S., Duquesne University.

FRANK E. MILLIMAN (1960)
Associate Professor of Mathematics
B.N.S., College of Holy Cross; A.B., Hobart College; A.M., Columbia University; Post Master's, Columbia University.

* Sabbatical Leave, Spring, 1968

KEGHAM A. MISSISSYAN (1964)
Associate Professor of Education
Aleppo College, Syria; B.A., American University, Beirut; M.A., University of Pennsylvania.

LLOYD C. MITCHELL (1936) *Chairman, Music Department*
Professor of Music
Morningside College; B.Mus., M.Mus., Peabody Conservatory of Music; Ed.D., Pennsylvania State University.

ROBERT M. MITTEN (1953)
Professor of Health and Physical Education
A.B., M.A., University of North Carolina; Temple University; Ed.D., Temple University.

W. HARDING MONROE (1964)
Assistant Professor of Geography
B.S., Bowling Green State University; M.S., Kent State University.

MICHAEL MONTEMURO (1965)
Associate Professor of Mathematics
B.A., LaSalle College; M.A., Temple University; Temple University; Stanford University; Beloit College; Maryland University.

CLIFTON E. MORGAN (1956) *Assistant Professor of History*
B.S., East Stroudsburg State College; M.A., Rutgers, The State University of New Jersey.

LARUE N. MORGAN (1961) *Assistant Librarian*
Instructor (Part-time)
B.S., Millersville State College.

MARY ANN MORGAN (1962) *Demonstration School*
Instructor of Education
B.S., East Stroudsburg State College.

ELIZABETH P. MORGANTHALL (1961)
Supervisor of Student Teaching
Assistant Professor of Education
B.S., Elizabethtown College; M.Ed., Pennsylvania State University; Boston University.

RONALD B. MORROW (1966) *Lecturer, Geography*
B.S. in Ed., West Chester State College; West Chester State College.

JOSEPH G. MOSER (1966) *Associate Professor of Mathematics*
B.S., Rose Polytechnic Institute; M.S., Purdue University; Bryn Mawr College.

MARTIN H. MURPHY (1966)
Assistant Professor of Anthropology
A.B., Edinboro State College; A.M., University of Michigan; University of Michigan.

ANNE B. NECHAS (1966) *Instructor of English*
B.A., Russell Sage College; M.A., University of Pennsylvania.

EDWARD N. NORRIS (1958)
Associate Professor of Health and Physical Education
B.S., West Chester State College; University of Kansas; M.S., Medical College of Virginia; Michigan State University; Temple University.

ROBERT B. NORRIS (1966)
Director, Intracollegiate Governmental Association
B.S., West Chester State College; Franklin and Marshall College; University of Michigan; Springfield College.

WILLIAM R. OVERLEASE (1963) *Professor of Biology*
B.S., B.S.F., M.S., Ph.D., Michigan State University.

JACK A. OWENS (1956) *Dean of Student Affairs*
Professor
A.B., Concord College; M.A., West Virginia University; Ed.D., Pennsylvania State University.

ARTHUR PARRIS (1964) *Associate Professor of Music*
Temple University; B.S., Juilliard School of Music; Paris Conservatory; M.A., Ph.D., Bryn Mawr College.

CHARLES W. PATTERSON (1946)
Associate Professor of Education
B.S., Shippensburg State College; M.Ed., Duke University; University of Pennsylvania.

ROBERT E. PENNINGTON (1966) *Associate Professor of Music*
Kansas City Conservatory; B.M., M.M., Northwestern University; Indiana University; Mus.D., Northwestern University.

FRANK E. PETERSON (1962) *Associate Professor of English*
B.S., Edinboro State College; M.A., Columbia University.

*FREDERICK C. PFLIEGER (1961)
Associate Professor of Music
B.S., West Chester State College; M.Mus., University of West Virginia; Eastman School of Music; University of Rochester.

HERBERT C. PHILLIPS (1963)
Associate Professor of Political Science
B.F.A., Carnegie Institute of Technology; M.L., University of Pittsburgh; Post Master's, University of Pittsburgh.

ELIZABETH H. POTTIEGER (1965)
Assistant Professor of Education
B.A., Albright College; M.A., Temple University; West Chester State College.

WILLIAM J. RAHN (1965) *Associate Professor of Education*
B.S., Villanova University; M.Ed., Temple University; Temple University.

LOUIS V. RAJU (1966) *Lecturer, Economics*
B.A., M.A., Madras University, India; M.A., University of Pennsylvania.

EVELYN R. READ (1966) *Assistant Librarian*
Instructor
Hartwick College; B.M., M.M., Peabody Conservatory; Drexel Institute of Technology.

THOMAS L. READ (1965) *Associate Professor of Music*
B.M., Oberlin Conservatory of Music; M.M., New England Conservatory; Peabody Conservatory of Music.

* Sabbatical Leave, 1966-67

LESTER N. RECKTENWALD (1962)
Associate Professor of Education
B.S., M.A., University of Minnesota; University of Wisconsin; Columbia University.

DAVID L. REDMOND (1963) *Assistant Professor of Education*
B.S., West Chester State College; Syracuse University; Pennsylvania State University; M.S., Syracuse University.

GEORGE F. REED (1966) *Instructor of Science*
B.S., St. Joseph's College; Pennsylvania State University; William and Mary College; Franklin and Marshall College; University of Pennsylvania.

*N. RUTH REED (1953)
Associate Professor of Health and Physical Education
B.S., East Stroudsburg State College; M.Ed., Pennsylvania State University; University of Delaware.

ROBERT W. REESE (1951) *Director of Athletics*
Assistant Professor
B.S., East Stroudsburg State College; M.S., University of Pennsylvania; Temple University.

FRANCIS J. REYNOLDS (1961) *Professor of Chemistry*
B.S., Pennsylvania State University; Ph.D., University of Pennsylvania.

RUSSELL K. RICKERT (1956)
Chairman of Department of Sciences
Professor of Science
B.S., West Chester State College; M.S., University of Delaware; Ed.D., New York University.

DONN C. RILEY (1966) *Associate Professor of History and Political Science*
A.B., M.A., Ph.D., St. Louis University.

ROBERT D. RIMEL (1966) *Assistant Professor of English*
B.S. in Ed., West Chester State College; M.A., University of Delaware; University of Delaware.

FRANCES W. RING (1960) *Assistant Professor of Art*
B.S., Columbia University; Ed.M., Temple University.

JEANNETTE K. RINGOLD (1966) *Lecturer, Foreign Languages*
University of California; B.A., Newcomb College; M.A., Columbia University; University of California.

SARAH E. RIVOIR (1964) *Assistant Librarian*
Instructor
B.S., Temple University; M.L.S., Drexel Institute of Technology.

ALFRED D. ROBERTS (1959)
Chairman of Foreign Language Department
Professor of Romance Languages
B.A., Ursinus College; M.A., Ph.D., University of Pennsylvania.

MIGUEL I. RODRIGUEZ (1964)
Associate Professor of Romance Languages
Ph.D., University of Havana; University of Miami.

* Sabbatical Leave, Fall, 1966

ROBERT E. ROMANELLI (1964) *Instructor of English*
B.A., Columbia Union College; M.A., Villanova University; Temple University.

ELEANOR B. ROSEMAN (1964) *Assistant Professor of German*
A.B., University of Pennsylvania; M.A., Indiana University; University of Chicago; University of Michigan; University of Oslo (Norway).

B. PAUL ROSS (1946) *Director of Admissions*
Professor
B.S., M.S., Ed.D., Pennsylvania State University; University of Chicago.

SARAH L. ROWE (1963) *Instructor of English*
A.B., Dickinson College; Drexel Institute of Technology.

ISABELLA BAYNE RYAN (1963) *Demonstration School*
Assistant Professor
B.S., West Chester State College; M.S., University of Pennsylvania.

GLENN W. SAMUELSON (1965) *Associate Professor of Sociology*
A.B., Wheaton College; M.R.E., Eastern Baptist Theological Seminary; Ed.D., University of Maryland; University of Pennsylvania.

ALFRED A. SANELLI (1966) *Associate Professor of English*
A.B., University of Buffalo; University of Buffalo; University of Wisconsin; M.A., Columbia University.

HARRY G. SCHALCK (1964) *Associate Professor of History*
A.B., Ursinus College; M.A., Ph.D., Clark University.

ANNE M. SCHAUB (1929)
Assistant Professor of Health and Physical Education
B.S., M.A., Columbia University.

ROBERT SCHICK (1961) *Professor of Music*
B.A., Swarthmore College; M.A., Columbia University; A.Mus.D., Eastman School of Music, University of Rochester.

DORIS R. SCHOEL (1963)
Assistant Professor of Public School Nursing
R.N., Bryn Mawr Hospital; B.S. in Nursing, Villanova University; M.S. in Ed., University of Pennsylvania.

EUGENE W. SCHOOLER (1961) *Professor of Economics*
B.S., Fort Hays Kansas State College; M.B.A., University of Kansas; A.M., Ph.D., Harvard University.

OLIVE M. SEDINGER (1965) *Supervisor of Student Teaching*
Associate Professor
B.A., M.Ed., University of Pittsburgh; University of Pittsburgh.

*HAROLD E. SHAFFER (1952) *Associate Professor of History*
A.B., Susquehanna University; Litt.M., University of Pittsburgh; Pennsylvania State University.

**JANE E. SHEPPARD (1953) *Associate Professor of Music*
B.Mus., Westminster College; Juilliard School of Music; M.A., Columbia University.

* Sabbatical Leave, Spring, 1968
**Sabbatical Leave, 1967-68

ROBERT R. SHINEHOUSE (1966)
Assistant to the Dean of Undergraduate Studies and Director of Summer Sessions
Assistant Professor of Education
B.S., Ursinus College; M.A., Temple University; University of Pennsylvania.

MARY L. SHOAF (1966) *Associate Professor of Science*
B.A., The Cardinal Stritch College; M.S., University of California; Ph.D., Purdue University.

*IRENE G. SHUR (1956) *Assistant Professor of History*
B.S., Ohio State University; M.Ed., University of Delaware; University of Pennsylvania.

CAROLYN G. SIMMENDINGER (1958)
Associate Professor of Art
B.S., Kutztown State College; M.F.A., Temple University; Pennsylvania State University.

WILLIAM C. SKILLEN (1947) *Associate Professor of Science*
B.S., Temple University; M.S., University of Pennsylvania; Temple University.

KENNETH C. SLAGLE (1938) *Dean of Arts and Sciences*
Professor of English
A.B., Mount Union College; M.A., Ph.D., University of Pennsylvania.

FRANK A. SMITH (1964) *Assistant Professor of Physics*
B.S., Villanova University; M.A., Temple University.

JANE G. SMITH (1955) *Associate Professor of English*
B.S., Millersville State College; M.Ed., Pennsylvania State University; M.L.S., Columbia University.

LIDA NELSON SMITH (1966)
Assistant Professor of Health and Physical Education
Barnard College; Pennsylvania State University; A.B., Bard College; University of Wisconsin; M.A., Sarah Lawrence College.

ROBERT F. SMITH (1965) *Associate Professor of English*
B.S., St. Joseph's College; M.A., University of Notre Dame; University of Pennsylvania.

NORBERT C. SOLDON (1963) *Associate Professor of History*
B.A., M.A., Pennsylvania State University.

CAROLYN R. SPIESZ (1966) *Assistant Dean of Women*
Assistant Professor
B.S., Cornell University; M.A., University of Denver; University of Denver.

**CHARLES A. SPRENKLE (1955) *Associate Professor of Music*
B.S., Johns Hopkins University; B.Mus., M.Mus., Peabody Conservatory of Music; University of Pennsylvania.

RUTH S. STANLEY (1959) *Assistant Professor of Mathematics*
B.S., M.A., University of Oklahoma.

*Sabbatical Leave, 1967-68
**Sabbatical Leave, 1966-67

JOHN ROBERT STEINMETZ (1965)
Assistant Professor of Health and Physical Education
B.S., Temple University; M.Ed., Temple University.

RICHARD L. STRAYER (1956) *Professor of Education*
B.S., West Chester State College; M.Ed., University of Delaware; Ed.D., Temple University.

FREDERICK R. STRUCKMEYER (1966)
Assistant Professor of Philosophy
B.A., King's College; A.M., Boston University; Boston University.

R. GODFREY STUDENMUND (1956)
Assistant to the Director of Admissions
Associate Professor of Education
B.S., Shippensburg State College; Ed.M., Temple University.

RUSSELL L. STURZEBECKER (1946)
Professor of Health and Physical Education
B.S., West Chester State College; Ed.M., Ed.D., Temple University.

VINCENT V. SUPPAN (1964) *Associate Professor of English*
B.S., West Chester State College; M.A., Columbia University.

JANE B. SWAN (1965) *Associate Professor of History*
B.A., Swarthmore College; M.A., Ph.D., University of Pennsylvania.

ROY D. SWEET (1953) *Associate Professor of Music*
B.S., Fredonia State College; M.Mus., Eastman School of Music, University of Rochester; Temple University.

JULIAN M. SWIREN (1964) *Associate Professor of Education*
B.S., M.S., University of Pennsylvania; Temple University.

WILLIAM A. TALLEY (1959) *Supervisor of Student Teaching*
Associate Professor of Education
B.S., West Chester State College; M.Ed., Harvard University.

ELINOR Z. TAYLOR (1955)
Associate Professor of Health and Physical Education
B.S., West Chester State College; Columbia University; Ed.M., Temple University; Temple University.

NAN L. TAYLOR (1963) *Assistant Librarian, Instructor*
A.A., Grand Rapids Junior College; B.A., University of Michigan; M.S., Drexel Institute of Technology.

GEORGE M. THOMAS (1966) *Associate Professor of Education*
B.S., West Chester State College; M.Ed., University of Delaware; Temple University.

POWELL S. THOMAS (1946) *Professor of English*
B.A., Gettysburg College; A.M., Ph.D., University of Pennsylvania.

ANDREW R. THOMPSON (1965)
Assistant Professor of Geography
B.S., M.Ed., West Chester State College; Pennsylvania State University; University of Pennsylvania.

DAVID G. THURBON (1963) *Assistant Professor of English*
A.B., M.Litt., University of Pittsburgh.

WILLIAM W. TOWNSLEY, JR. (1964)
Associate Professor of Biology
B.S., Wheaton College; M.S., University of Delaware; Ph.D., University of Maryland.

LILY Y. TRAUB (1966) *Lecturer, Art*
B.A., National Taiwan University; B.F.A., M.F.A., University of Pennsylvania.

WILLARD J. TREZISE (1938) *Dean of Graduate Studies*
Professor of Science
B.S., Lebanon Valley College; M.S., Ph.D., Johns Hopkins University.

MILAN TRNKA (1962)
Assistant Professor of Health and Physical Education
A.B., Syracuse University; M.S., University of Illinois.

SHANNON M. TROY (1966) *Assistant Librarian*
Instructor
B.A., Nazareth College of Rochester; A.M., University of Rochester; M.L.S., Rutgers, The State University of New Jersey.

JOHN J. TURNER, JR. (1965) *Associate Professor of History*
A.B., Muhlenberg College; M.A., University of Rhode Island; Columbia University.

EDWARD T. TWARDOWSKI (1951) *Director of Placement*
B.S., West Chester State College; M.S., University of Pennsylvania; Ed.D., Temple University.

JOY VANDEVER (1964) *Assistant Professor of Music*
B.S., M.Ed., West Chester State College.

G. BARRY VAUGHAN (1966) *Instructor of Music*
B.S., West Chester State College; Temple University; University of Pennsylvania.

MARJORIE D. VELETA (1966) *Lecturer, Music*
Illinois Institute of Technology; Northwestern University; B.A., New Mexico Highlands University; Northwestern University; West Chester State College.

RICHARD K. VELETA (1965) *Associate Professor of Music*
B.M., M.M., D.M., Northwestern University; University of Colorado.

C. RALPH VERNO (1966) *Assistant Professor of Mathematics*
B.A., University of Pittsburgh; B.D., Westminster Seminary; Ashland College; Lehigh University; M.S. in Ed., University of Pennsylvania.

MARGARET F. WALKER (1966) *Assistant Librarian*
Instructor
A.B., Wilson College; M.L.S., Rutgers University.

SHIRLEY ANN WALTERS (1963)
Supervisor of Student Teaching
Assistant Professor of Education
B.S., Millersville State College; M.A., University of Michigan; Purdue University; Bucknell University.

JOHN W. WARD (1961) *Assistant Professor of English*
A.B., M.A., Miami University.

RICHARD P. WEAGLEY (1954)
Director of Educational Media Services
Professor of Education
B.S., Lebanon Valley College; M.Ed., D.Ed., Pennsylvania State University.

CAROL WEBER (1966)
Instructor of Health and Physical Education
B.S., Temple University; University of Maryland.

SOL WEISS (1964) *Associate Professor of Mathematics*
B.S., Brooklyn College; M.A., Columbia University; University of Southern California; Temple University; University of Pennsylvania.

THEODORA LEE WEST (1963) *Professor of English*
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WEST CHESTER STATE COLLEGE

WEST CHESTER, PENNSYLVANIA 19380

REQUEST FOR APPLICATION FORMS

(to be sent as soon as possible following the student's completion of the junior year of secondary school)

1. Name .....
   (Last) (First) (Second)

2. Number and Street ..... County .....

3. City ..... State ..... Zip Code.....

4. When do you wish to enter this College?

   Month (September, January or June) .... 19....

5. In what curriculum do you wish to enroll?

   Elementary Ed .... Secondary Ed .... Physical Ed ....

   Music Ed .... Liberal Arts and Sciences ....

   If Secondary Education or Liberal Arts and Sciences,

   list major .....

6. Have you attended any other college? Yes .... No .... If so,

   give name of the college .....

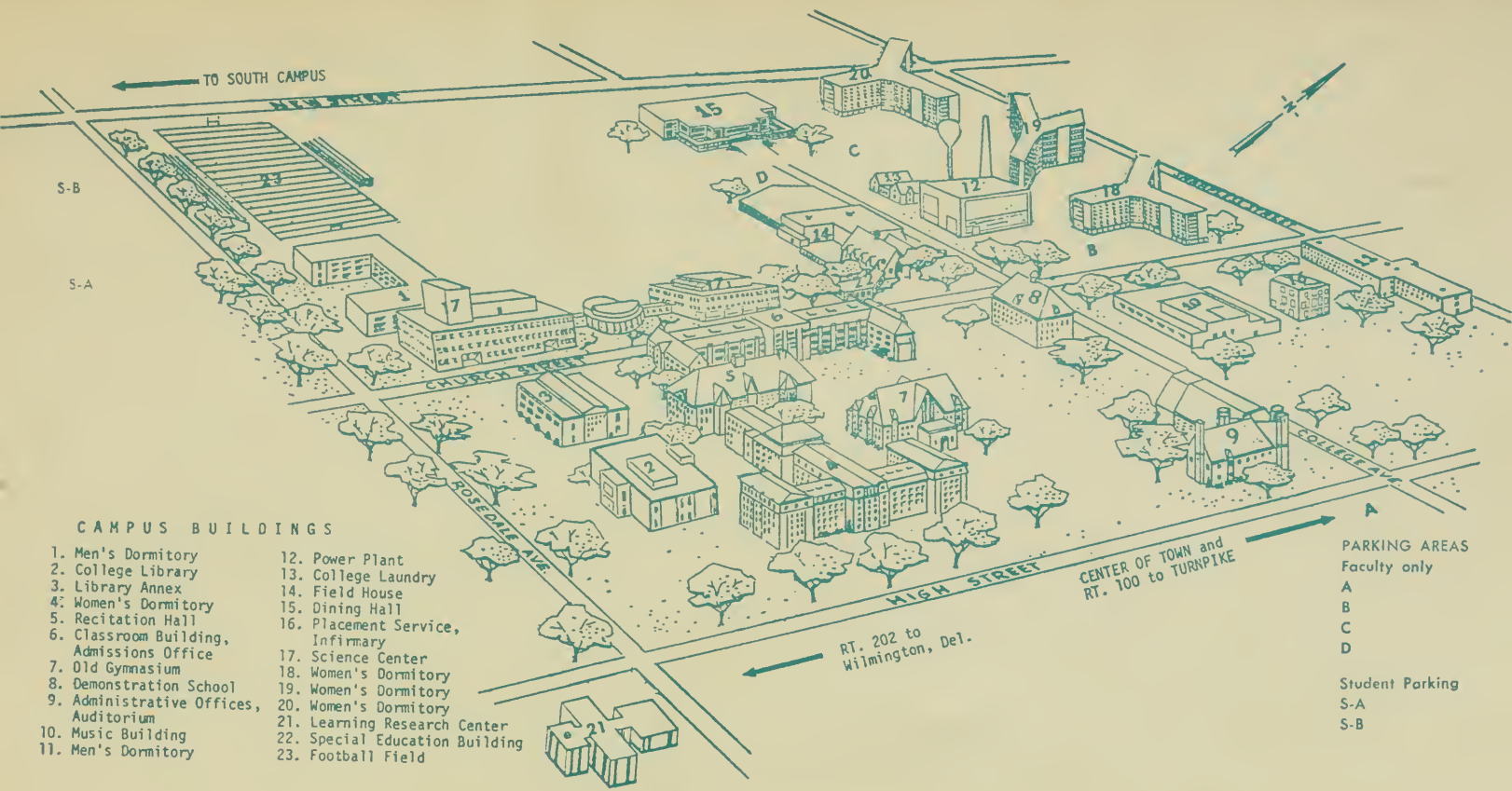
7. Do you apply as a Resident Student? ..... Day Student? .....

   Date of graduation from High School: Month ..... Year ....

NOTE: When this information has been received by the Director of Admissions, instructions for completing your application will be sent to you. Do *not* send application fee with this form.

(4-67)

WEST CHESTER STATE COLLEGE CAMPUS



CAMPUS BUILDINGS

1. Men's Dormitory
2. College Library
3. Library Annex
4. Women's Dormitory
5. Recitation Hall
6. Classroom Building, Admissions Office
7. Old Gymnasium
8. Demonstration School
9. Administrative Offices, Auditorium
10. Music Building
11. Men's Dormitory
12. Power Plant
13. College Laundry
14. Field House
15. Dining Hall
16. Placement Service, Infirmary
17. Science Center
18. Women's Dormitory
19. Women's Dormitory
20. Women's Dormitory
21. Learning Research Center
22. Special Education Building
23. Football Field

PARKING AREAS

Faculty only

A
B
C
D

Student Parking

S-A
S-B

WEST CHESTER STATE COLLEGE BULLETIN

WEST CHESTER, PENNSYLVANIA

UNDERGRADUATE STUDIES

CATALOGUE NUMBER
SUMMER SESSIONS
1968

WEST CHESTER STATE COLLEGE

IS ACCREDITED BY

THE MIDDLE STATES ASSOCIATION OF COLLEGES

AND SECONDARY SCHOOLS,

THE NATIONAL COUNCIL FOR ACCREDITATION

OF TEACHER EDUCATION,

THE AMERICAN ASSOCIATION FOR HEALTH,

PHYSICAL EDUCATION, AND RECREATION,

AND THE

NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC

1968 SUMMER SESSIONS

Vol. 96 No. 4

FEBRUARY 1968

Issued five times a year, December (twice), January, February and March by the Trustees of West Chester State College at West Chester, Pennsylvania

Entered as second class matter March 3, 1931, at the Post Office at West Chester, Pennsylvania, under the Act of Congress of August 24, 1912.

Second Class Postage Paid at West Chester, Pa. 19380.

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Director of Public Relations and Publications ..... William Houpt

WEST CHESTER STATE COLLEGE

West Chester State College is accredited by the Middle States Association of Colleges and Secondary Schools; the National Council for Accreditation of Teacher Education; the American Association for Health, Physical Education and Recreation; and the National Association of Schools of Music.

Modern and adequate science laboratories, instructional equipment, and classroom facilities are provided.

The annual All-Star Course brings to the campus some of the world's most famous artists in the fields of music, drama and dance. Among these have been the Pittsburgh, Detroit, National, Cleveland and Minneapolis Symphony Orchestras, the Canadian Players, the Singing Boys of Norway, George London, Isaac Stern, Carmen Amaya, Roberta Peters, the Jose Limon Dance Company, Brian Sullivan, Maureen Forrester, the Columbus Boys' Choir, Blanche Thebom, Jerome Hines, the Dublin Gate Theatre, the Chicago Opera Ballet, and the Robert Shaw Chorale.

The William Pyle Philips Lecture Foundation brings to the campus lecturers who are leaders in the fields of literature, science and world affairs. Among these have been Madame V. L. Pandit, Arnold Toynbee, Harrison Salisbury, Loren Eiseley, Daniel Schorr, Ashley Montague, Walter Sullivan, Robert Frost, Bennett Cerf, Max Lerner and William Teller.

The college assemblies, which are held approximately twice each month, provide the students, faculty and citizens of the community with an additional series of cultural and professional programs.

In addition to regular courses for preparing Elementary and Secondary teachers, West Chester has two special curricula preparing teachers in Music, and Health and Physical Education.

The College offers Liberal Arts and Sciences curricula in Humanities, Social Sciences, Geography, Natural Sciences, and Mathematics leading to a Bachelor of Arts degree.

The College maintains an active Placement Service without cost to graduates.

GENERAL STATEMENT

The twelve-week summer sessions are divided into three periods: the Pre Session of three weeks, the Regular Session of six weeks, and the Post Session of three weeks. The schedule includes courses for regular college students, and a number of special offerings for teachers in service.

West Chester State College is located in the beautiful residential town of West Chester, near the historic Brandywine and Valley Forge. Students enjoy the added advantage of easy access to Philadelphia, New York, and Atlantic City.

The College provides for its wide area of service a modern, progressive, and constantly expanding co-educational program. The major aim of the program is the preparation of teachers particularly for the public schools of the Commonwealth of Pennsylvania. Students who have attended summer sessions at West Chester know it is an ideal place to combine serious study with wholesome recreation and student life.

SOCIAL AND RECREATIONAL PROGRAM

A summer at West Chester gives the students an opportunity to pursue college work under the most favorable conditions. The tree-shaded campus, with its conveniently located buildings, provides a beautiful and restful environment.

Opportunities for recreation are many: softball, tennis, swimming, and other recreational activities. Social hours, when the students may talk informally with their professors, are a feature of the Pre and Post Sessions.

The borough and vicinity of West Chester are beautiful and at the same time provide material for study and research in history, science, and the arts. Philadelphia excels in scenic and historic interest, and special trips to the city will be arranged for those interested in taking advantage of these opportunities.

Seeing the world-famous fountains at Longwood Gardens, picnicking and canoeing on the Brandywine, taking advantage of the best in music, art, and the theatre—these are some of the activities that make a summer at West Chester much to be desired.

GENERAL INFORMATION

CREDITS

Credits for the summer sessions may be earned at the rate of one semester hour per week of work; thus, a student attending all three sessions may earn twelve credits.

Students will not be permitted to carry more than six semester hours of work in the Regular Session unless permission to do so has been secured in advance from the Dean of the Undergraduate Program.

PREADMISSION POLICY

Not more than nine semester hours of course work may be completed at the West Chester State College prior to formal admission to a program. A minimum cumulative grade point average of 2.00 must be earned in the preadmission courses to qualify for admission to a program. A transcript from an approved secondary school or equivalent preparation as approved by the Pennsylvania Department of Public Instruction must be filed in the Admissions Office to qualify for admission under this policy. Application for admission under the Preadmission Policy must be filed by the student in the Admissions Office.

REINSTATEMENT TO FALL SEMESTER

Application for reinstatement of students dropped from the College in June must be filed with the Chairman of the Academic Standards Committee, in Room 5, Anderson Hall, no later than August 1.

ACADEMIC DISMISSAL

The recommendations of the department chairman concerned and the Dean of Women or the Dean of Men will be considered when the question of a student's dismissal for academic reasons is under study.

Any student dismissed twice for academic reasons automatically terminates his degree candidacy at West Chester. Any courses taken as a non-degree student, following a second academic dismissal, shall not be included in his grade average, nor imply the right to readmission to the College.

HOUSING

There will be adequate housing available for all men and women students for all three summer sessions. The College is unable, however, to provide housing for married students and their families.

After filing an application for admission to the Summer Sessions with the Admissions Office, room reservations should be made through a **written application** to either the Dean of Women's or the Dean of Men's Office **one week prior to the opening** of each session.

Rooms may be occupied after 2:00 P.M. on the Sunday preceding each session.

COLLEGE REGULATIONS

The same college regulations pertaining to student procedure and conduct in effect during the academic year at West Chester State College are effective for the three summer sessions.

ENROLLMENT

Classes will be held in the courses offered subject to enrollment.

REGISTRATION (Undergraduate)

Registration as a student in any summer session does not establish priority or privilege for admission as a student for the regular academic year.

Students who have graduated from high school but have never attended college are not permitted to register in the summer sessions without permission of the Director of Admissions. Such permission **must be secured at least one week in advance of the closing date for pre-registration.** Persons who have not graduated from high school are not permitted to register in the summer sessions.

Students of other colleges must file with their pre-registration information form a statement of approval of attendance from the Dean of Instruction of the college they attend. **No form will be accepted without such a statement.**

West Chester students must present their college I.D. cards in order to register.

1. Registration for each summer session will be held in Lawrence Dining Hall on the opening day of each session.

The College will operate on Daylight Saving Time.

2. Procedure. Application for admission to any or all of the summer sessions may be made by filling in a pre-registration information form which may be secured from the Director of Admissions, West Chester State College, West Chester, Pa. 19380. Upon filing a form, a student may consider himself accepted, unless notified otherwise, and he **should report for registration** on the day or days indicated in the Summer Sessions calendar. Since the summer sessions are short, it is necessary for students to register at the times indicated as registration periods.

CLASS MEETINGS AND PERIODS

In each of the three summer sessions classes will be held on all weekdays except Saturdays.

No class absences are permitted during the Summer Sessions.

Pre and Post Sessions. After registration day, each class will meet twice daily, 8:00-9:30 A.M. and 10:30-12:00 A.M. The hour from 9:30-10:30 is for rest, library work, or recreation. It will not be possible for a student to carry more than one course during either the Pre or Post Session since all courses meet concurrently.

Regular Session. Classes begin on Tuesday and meet once daily (unless otherwise indicated) at the time stated in the schedule. The schedule for classes during the Regular Session will operate on Daylight Saving Time as follows:

8:00- 9:30 First Period
9:30-11:00 Second Period
11:00-12:30 Third Period
12:30- 1:30 Fourth Period
1:30- 3:00 Fifth Period

—However, time of classes may be subject to change by administrative decision.

WITHDRAWAL

1. All withdrawals must be processed through the Undergraduate Office.
2. A student may officially withdraw from a course without penalty after two class meetings in the Pre and Post Sessions and after one week in the Regular Session.
3. A student who finds it necessary to withdraw must file a letter with the Undergraduate Office giving the date of last class attendance and the reason for withdrawal.
4. If a student withdraws without following the official procedures, his registration is continued until the end of the summer session, and he will receive an "F" grade in the course or courses pursued.

* FEES (Undergraduate)

I. Regular Summer Sessions—6 weeks (Check or money order payable to Commonwealth of Pennsylvania).

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* These fees are subject to change without notice. All charges for a session must be paid on the day of registration.

A. **Basic Fee** for the Regular Summer Session.

1. All Pennsylvania Residents:

   $12.50 per semester hour credit
   $37.50—minimum fee

2. Out-of-State Students:

   $20.00 per semester hour credit
   $60.00—minimum fee

Students who enroll in the Health Education Curriculum are charged an additional fee of $6.

Those who enroll in the Music Education Curriculum and are taking work toward music certification, but without private lessons, pay an additional music fee of $15.

Students in the Humanities Curriculum of Liberal Arts and Sciences are charged a fee of $45.00 for one-hour lessons if electing individual lessons in piano, voice, organ, or orchestral instruments. If piano practice room is needed, the usual instrument rental of $2.00 will be charged.

Applied music fees for accelerating Music students will be consolidated in the Regular Session, and the music fee will be $45.00.

B. **Housing Fee** for the Regular Summer Session.

The housing fee for students is $108. This includes room and meals.

(1) No reduction in the fee is made for absences of a few days at a time.

(2) A student may, at the discretion of the President of the College, occupy a double room by paying an additional $12.

(3) The rate for separate meals is:
Breakfast $0.65
Lunch $0.85
Dinner $1.25

C. **The Student Activities Fee** for the Regular Summer Session is $3.50. (Check or money order payable to Intracollegiate Governmental Association).

D. **Books Must Be Purchased.** They will cost approximately $15.

E. **Other Charges:**

(1) Music Education Students
   A. Pipe organ for practice, $12 per session.
   B. Rental of orchestral instruments, $2 per session.

(2) Academic Students

A. The fee of $37.50 will be charged for individual, one-hour lessons in voice, piano, organ, band, or orchestral instruments, plus the credit fee.

B. Rental of piano or orchestral instruments for practice, $2 per session.

C. Rental of pipe organ for practice, $12 per session.

(3) Private voice and piano lessons for Music Education students carry one extra credit costing $12.50. Chorus, Band and Orchestra carry one-half hour credit. (This is in addition to the regular $45 music fee.)

(4) Late Registration Payment after pre-registration period $10.00

II. Pre Session and Post Session

1. **The Basic Fee** for Pre and Post Sessions: (Check or money order payable to Commonwealth of Pennsylvania).

The basic fees are the same as for the Regular Summer Session, see Section 1.

Students in either of these sessions who enroll in the Health and Physical Education Curriculum are charged an additional fee of $3.

Those who enroll in the Music Education curriculum and take work toward music certification, but without private lessons, pay an additional music fee of $7.50.

2. **Housing Fee** for Pre and Post Sessions:

The housing fee for Pre and Post Sessions is $54.00 for each session. The fee includes room and meals.

3. **The Student Activity Fee** for Pre and Post Sessions is $1.75 for each session. (Check or money order payable to Intercollegiate Governmental Association).

4. **Books Must Be Purchased.** They will cost approximately $8.

5. **Other Music Charges**—for each session, one-half of those listed under Section E. above for the Regular Session.

6. **Late Registration Payment** after pre-registration period—$10.00.

OPPORTUNITIES FOR EMPLOYMENT AND LOANS

Students interested in securing employment should consult the Dean of Student Affairs. Full information concerning student loans will be found in the general college catalog.

PLACEMENT

The Placement Bureau of the College offers excellent opportunities for employment in teaching. Graduates are invited to make use of this bureau without cost.

CERTIFICATION OF TEACHERS

School Laws of Pennsylvania, Section 1202. State Certificates—

"State certificates shall be issued as herein provided. Each such certificate shall set forth the branches which its holder is entitled to teach. No teacher shall teach, in any public school, any branch which he has not been properly certificated to teach . . . .

"A certificate to teach shall not be granted or issued to any person not a citizen of the United States, except in the case of exchange teachers not permanently employed and teachers employed for the purpose of teaching foreign languages."

Provisional College Certificate

A student who satisfactorily completes one of the Teacher Education Programs offered by the College receives his degree from the College and qualifies for a Provisional College Certificate which is issued to him upon application to the Department of Public Instruction, Harrisburg, Pennsylvania.

In the elementary field this certificate qualifies the holder to teach in the public elementary schools of Pennsylvania for three years.

In the secondary field this certificate qualifies the holder to teach the subjects written thereon in the public secondary schools of Pennsylvania for three years.

In health education and music education the certificate qualifies the holder to teach the special subject in both elementary and secondary public schools of Pennsylvania for three years.

Permanent College Certificate

The permanent College Certificate requires three years of successful teaching in the public schools of this Commonwealth under the Provisional College Certificate and the satisfactory completion of 24 semester hours of additional work of collegiate grade, completed subsequent to the issuance of the baccalaureate degree. One-half of the additional work must be professional and the remainder related to the subject or subject fields on the certificate. This certificate is then a permanent license to teach.

Extension of College Certificates

1. A college certificate valid for the secondary field may be extended to include the elementary field by completing twenty-four semester hours of approved courses in the field of elementary education, distributed as follows: a course in the teaching of reading; the remainder selected from a minimum of four of the following areas: mathematics, arts and crafts, music, physical education, language arts, sciences, social studies, geography, mental hygiene, or a course dealing with exceptional children.

2. A college certificate valid for the elementary field may be extended to include any subject of the secondary field by completing twenty-four to forty semester hours in a secondary subject, depending upon the area of specialization.

3. A college certificate valid for the secondary field may be extended to include additional academic subjects when the holder has completed the number of semester hours required for the subject field.

Certification in Other States

Concerning the requirements for certification for teaching in other states, students should consult the Dean of the Undergraduate Progam.

LIBERAL ARTS AND SCIENCES PROGRAM

All students enrolled in the Program are required to complete 128 semester hours of credit, approximately half of which are devoted to general studies concentrated primarily in the freshman and sophomore years.

These studies consist of courses distributed among a basic core of courses in English composition, speech, a foreign language at the intermediate level, philosophy, literature, art, music, history, anthropology, sociology, economics, political science, geography, psychology, a choice of a biological or physical science, and mathematics.

To supplement his general academic studies, the student is also required to take four hours' credit in health and physical education.

Upon completing the above, the student elects one of five broad fields of concentration: humanities, social sciences, geography, natural sciences, or mathematics.

College Calendar
1968 - 1969

FALL SEMESTER

Last day to qualify for admission	Thursday, August 1
Faculty and Department Meetings	Friday, September 6
Registration	
Part-time and Graduate Students	Saturday, September 7
Freshmen	Monday, September 9
Full-time Readmission and Transfer Students	Monday, September 9
Sophomores and Seniors	Tuesday, September 10
Juniors	Wednesday, September 11
Classes begin	Thursday, September 12
Thanksgiving Recess	
Begins—close of classes	Tuesday, November 26
Ends—7:30 A.M.	Tuesday, December 3
Christmas Recess	
Begins—close of classes	Saturday, December 21
Ends—7:30 A.M.	Monday, January 6
Final Examinations	Thursday, January 16
	to Friday, January 24
Fall Semester ends	Friday, January 24

SPRING SEMESTER

Last day to qualify for admission	Monday, December 16 (1968)
Registration	
Part-time Students	Saturday, January 25
Freshmen	Tuesday, January 28
Full-time Readmission and Transfer Students	Tuesday, January 28
Sophomores and Seniors	Wednesday, January 29
Juniors	Thursday, January 30
Classes begin	
Part-time and Graduate	Monday, January 27
Undergraduate	Friday, January 31
Spring Recess	
Begins—close of classes	Saturday, March 15
Ends—7:30 A.M.	Monday, March 24
Easter Recess	
Begins—close of classes	Thursday, April 3
Ends—7:30 A.M.	Tuesday, April 8
Final Examinations	Thursday, May 15
	to Friday, May 23
Alumni Day	Saturday, May 24
Commencement	Sunday, May 25

Summer Session
1969

Pre Session	June 2 - June 20
Regular Session	June 23 - August 1
Post Session	August 4 - August 22

ACADEMIC YEAR — Undergraduate

1968-1969

HOUSING

The college has made provisions for the housing of its resident students. It may be impossible to provide housing for all students who apply for admission. Although College authorities are embarrassed by this situation, there is nothing that can be done about it in this period of serious housing shortages. It is very important that all housing arrangements for both upperclassmen and new students be satisfactorily settled with the Dean of Women or Dean of Men before any student comes to the campus in September.

ADMISSION REQUIREMENTS

Candidates for admission to the College must meet the following requirements:

1. Acceptable scholarship as evidenced by graduation from an approved secondary school or equivalent preparation as determined by the Credentials Evaluation Division of the Pennsylvania Department of Public Instruction. All candidates for admission must take the Scholastic Aptitude Test and English Composition Achievement Test of the College Entrance Examination Board;
2. Satisfactory character and personality traits as well as proper attitudes and interests as determined by the high school principal, guidance director, or other school official acquainted with the student;
3. Health and physical condition as evidenced by a medical examination by the student's family physician reported on the adopted form and approved by the College physician;
4. Recommendations of one or more College staff members following a personal interview with the applicant;
5. For admission to special curricula, the College may require the candidate to take an appropriate aptitude test in the special field in order to obtain further evidence of ability to succeed.

Admission Procedure

Admission to the regular fall or spring semester involves a number of steps, the first of which is the filing of application forms which may be secured from the Admissions Office.

The West Chester State College is owned and operated by the Commonwealth of Pennsylvania and therefore charges no tuition. In effect, **each student who enrolls receives a free tuition scholarship from the State.**

COSTS BY CURRICULA PER ACADEMIC YEAR

A Summary of Costs For the Different Curricula	Elementary Education	Secondary Education	Health and Physical Education	Music Education	Liberal Arts
Basic Fee	$ 250	$ 250	$ 250	$ 250	$ 250
Special Curriculum Fee	—	—	36	90	—
Activity Fee	40	40	40	40	40
Books & Supplies (approx.)	120	120	120	120	120
Total—Day Students	410	410	446	500	410
Room & Board	648	648	648	648	648
Total—Boarding Students	$1058	$1058	$1094	$1148	$1058

NOTES:

1. **THE ABOVE COSTS ARE FOR ONE ACADEMIC YEAR.**
2. Payments are due on or before the date of registration.
3. For students other than legal residents of Pennsylvania a tuition fee of $20.00 per semester hour is charged in lieu of basic fee.
4. Fees are subject to change without notice.

CURRICULA OFFERED AT WEST CHESTER

Elementary Education—

A non-specialized course for teachers of the elementary grade. Specialization in the Kindergarten-Primary or Intermediate areas is possible through selection of appropriate elective courses.

Secondary Education—

Teaching in the junior and senior high schools. Students must choose a teaching field from the following: English, Latin, French, Spanish, German, mathematics, general science, chemistry, physics, biology, geography, social science and history.

Health and Physical Education—

Teaching health and physical education in the elementary and secondary schools.

Music Education—

Teaching music—both instrumental and vocal—in the elementary and secondary schools.

Arts and Sciences

The satisfactory completion of a four-year course of study in any of these five areas: Humanities, Social Sciences, Geography, Natural Sciences, and Mathematics, will lead to the degree of Bachelor of Arts.

Degree Curriculum for Dental Hygienists.

Degree Curriculum for Public School Nurses.

REGISTRATION INSTRUCTIONS

1968 SUMMER SCHOOL

UNDERGRADUATE STUDENTS

Lawrence Hall (New Dining Hall)

Station I: Foyer of the new dining hall.

A. Secure **calendar** of summer school session which you are attending.

B. Secure **classroom assignment sheet** of summer school session which you are attending.

Station II: Northeast Dining Room.

A. Secure class permits and registration forms upon entering dining room.

B. Undergraduate Table—(Change of Course or Late Registration)

1) All students who wish to change a course or drop a course, report to the Undergraduate Table.

2) ALL STUDENTS WHO HAVE NOT PRE-REGISTERED, REPORT TO THIS TABLE.

C. Registrar's Table

1) Senior students planning to graduate in August, 1968, must sign for diplomas and secure applications for Provisional Teacher Certification. Please designate graduation date as Pre, Regular or Post Session.

2) Students receiving Veterans benefits must secure proper form.

3) Students who wish to have credits transferred to another college secure special form.

D. Complete all information requested on registration card at the designated writing areas and proceed to the Dean of Men's table or Dean of Women's table.

E. Dean of Men's and Dean of Women's Table.

1) All students please check resident or commuting status.

2) Resident students will receive room assignments and indicate same on their registration forms.

3) All resident students must take their meals in the College dining room.

4) ALL RESIDENT STUDENTS MUST HAVE THE APPROVAL OF THE DEAN OF MEN OR DEAN OF WOMEN TO SECURE AUTOMOBILE STICKERS.

5) Proceed from this area to Checker Table. After leaving the checking tables, you should have in your possession the blue permit-to-attend class card and your white pre-registration form.

Station III: Northwest Dining Room

A. Pay tuition, and room and board fees.

B. Have permit cards stamped by the Business Office. THESE CARDS ARE TO BE SUBMITTED TO YOUR INDIVIDUAL PROFESSORS FOR CLASS ADMISSION.

C. Automobile Regulations

Students who have the pre-approval of the Dean of Men or the Dean of Women MUST secure their automobile stickers at this station.

D. All students pay the student activity fee. The fees are $1.75 for Pre and Post Sessions and $3.50 for the Regular session. Have checks made payable in advance to the Intracollegiate Governmental Association (I.G.A.).

SUMMER WORKSHOPS

DEMONSTRATION SCHOOL

The Demonstration School will be open during the six weeks' session for the purpose of demonstrating teaching at the elementary level. Experience in elementary student teaching will be available for a limited number of students who file applications early in the spring.

WORKSHOP IN ELEMENTARY EDUCATION

A Workshop in Elementary Education will be conducted to provide opportunity for study of newer practices in elementary education. Current problems will be shared by the members of the group. Discussions will be led by an experienced coordinator.

Master teachers and the facilities of the Demonstration School will be utilized for demonstration and observance. The Workshop will meet during the first and second periods (8:00-12:00 A.M.) during the Regular Session and will carry four semester hours of credit. Students may elect an additional three credit course. The Workshop is open to experienced teachers and college graduates.

WORKSHOP IN EARLY CHILDHOOD ENRICHMENT

A workshop for both pre-service and in-service elementary teachers who desire to learn more about working with pre-school and kindergarten age children who are culturally deprived. The students in this workshop will have an opportunity to spend most of their class hours in a school situation observing and working with children. Four of the six weeks will be spent in these off-campus observations. (Students should be prepared to have transportation to and from schools where observations occur—Coatesville, Norristown or Downingtown.) Experienced teachers will have charge of the classes. The college provides an experienced teacher and supervisor to help the student gain greater insight into the problems of working with children who have not had the varied experiences associated with normal home life.

This workshop is of great value to the student or teacher who wishes greater insight into the sociological problems of an increasingly larger number of school children who might be identified with life in the Appalachia areas to which our Federal Government has referred in recent years.

SUMMER MUSIC WORKSHOP FOR HIGH SCHOOL MUSICIANS

A summer music workshop for serious musicians of high school age will be held from July 1 to July 26 under the sponsorship of the Music Department. Offerings will include: band, orchestra, chorus, individual lessons, music theory, appreciation, ensembles, and dance band. There will also be master classes in repertoire and literature for studies of voice and piano. Concerts, recitals, and special clinics, open to the public, will be presented during the workshop. For brochure and application forms write to: Richard Boerlin, Workshop Director, Music Department, West Chester State College, West Chester, Pennsylvania 19380.

MUSIC WORKSHOP FEES

Total fee for commuting students (including accident insurance, individual lessons, activity fee, and full workshop privileges)... $70.00

Total fee for resident students (including above, plus room and board on campus for four weeks) $154.00

STRING CONFERENCE AND CHAMBER MUSIC WORKSHOP

AUGUST 9 - 18, 1968

The Department of Music of West Chester State College, and the Pennsylvania String Teachers Association will sponsor the Sixth Annual String Conference and Chamber Music Workshop from

August 9 to August 18 in Swope Hall. A faculty of internationally famous string authorities will present master classes for each of the string instruments to both adults and youth participants. Two youth and one adult string symphony orchestra, conducted by outstanding guest conductors, will be in daily rehearsal, culminating in gala performances at the end of the Conference. Chamber music ensembles will be organized and coached by a distinguished faculty of chamber music experts. Solo literature classes will be presented and directed by master teachers. Guest lecturers and experts in many phases of string teaching and performance will preside over special sessions.

The String Conference will embrace complete programs for both adults and youth, which will run concurrently for ten days. Information and application forms may be obtained by writing Dr. Constantine Johns, Executive Director of the Conference, Department of Music, West Chester State College, West Chester, Pennsylvania 19380.

A PROGRAM OF INDEPENDENT STUDY AND SUPERVISED FIELD EXPERIENCE IN CAMPING

The Department of Health, Physical Education, and Recreation offers a special program of courses in camp leadership for staff members at children's summer camps. These courses are designed to aid the student's professional growth and knowledge through directed leadership experience with children in the informal atmosphere of the camp.

COURSES AVAILABLE

Undergraduate Students

Hed 464. Supervised Camping Leadership—3 credits. (6 to 8 weeks' attendance at camp July through August.)

ELIGIBILITY:

Any matriculated student at West Chester State College is eligible to participate in the program. Permission of the special adviser should be obtained if credit is to be applied toward a degree. Students from other colleges may register with the permission of the course instructor. It is suggested that students enrolled at other colleges obtain the approval of their special adviser or appropriate administrative officer to assure that these courses may be applied toward degree requirements.

Apply to: Mr. Alvin B. Davis, Department of Health and Physical Education.

STUDENT EUROPEAN TOUR

Each summer the Division of Social Sciences conducts a "Cultural Adventure in Europe". Directed by a member of the Social Sciences faculty, the tour offers six undergraduate credits in history, the social sciences, or the humanities. The European Tour offers a cross-section of Europe, past and present, through visits to museums, galleries, cathedrals, attendance at operas and music festivals, seminars and lectures by European academicians, and orientation tours of cities. For the 1968 tour, see SSc 300, Seminar in Contemporary European Culture, listed under Course Offerings for the Regular Session.

WORKSHOP IN COMMUNITY AND SCHOOL HEALTH EDUCATION

The Community and School Health Education Workshop for rural teachers, school nurses, health education specialists, and others engaged in health work will be conducted during the three week period from June 24 to July 12. Three college credits may be earned by students who meet the College admission requirements. No additional courses may be carried by the student during this three-week session. For information contact: Mr. Walter Funk, Chairman of Health Department, West Chester State College, West Chester, Pa. 19380.

UNDERGRADUATE PROGRAM

SUMMER CALENDAR 1968

1968 PRE SESSION

Pre-registration Ends 4:00 P.M. ..... Monday, May 27

Registration ..... Monday, June 3

Students will register alphabetically according to last name:

8:30-11:30 A.M. ..... A through L
1:30-3:30 P.M. ..... M through Z

Classes begin 8:00 A.M. ..... Tuesday, June 4

Classes end ..... Friday, June 21

1968 REGULAR SESSION

Pre-registration Ends 4:00 P.M. ..... Monday, June 17

Registration ..... Monday, June 24

Students will register alphabetically according to last name:

8:30-11:30 A.M. ..... A through L
1:30-3:30 P.M. ..... M through Z

Classes begin 8:00 A.M. ..... Tuesday, June 25

Classes end ..... Friday, August 2

No Classes ..... July 4 and July 5*

1968 POST-SESSION

Pre-registration Ends 4:00 P.M. ..... Monday, July 29

Registration ..... Monday, August 5

Students will register alphabetically according to last name:

8:30-10:00 A.M. ..... A through L
10:00 11:30 A.M. ..... M through Z

Classes begin 8:00 A.M. ..... Tuesday, August 6

Classes end ..... Friday, August 23

* Make-up day, Saturday, June 29

UNDERGRADUATE COURSES OFFERED

Pre Session — June 3 to June 21

(Each class meets 8:00 - 9:30 a.m. and 10:30 - 12:00 Noon)*

(For course description, see the appropriate undergraduate bulletin)

COLLEGE OF ARTS AND SCIENCES

DIVISION OF ARTS AND LETTERS

ART

Dept.	No.	Course Title	Credits
Art	101	Fine Arts	3

ENGLISH

Eng	101	English Composition I	3
Lit	121	General Literature I (01)	3
Lit	121	General Literature I (02)	3
Lit	350	Children's Literature	3
Lit	225	English Literature I	3
Lit	223	American Literature I	3
Eng	315	Advanced Grammar	3
Lit	333	Shakespeare	3

PHILOSOPHY

Phi	280	Introduction to Philosophy (01)	3
Phi	280	Introduction to Philosophy (02)	3

SPEECH

Sph	101	Fundamentals of Public Speaking	2

DIVISION OF MATHEMATICS AND SCIENCES

BIOLOGY

Bio	100	Basic Biological Science (Lab 1:30 to 3:30 Tues. and Thurs.)	4
Bio	242	Ornithology	3
Bio	261	Human Anatomy (Lab 1:30 to 3:30 Mon. thru Thurs.)	4
Bio	301	Genetics (Lab 1:30 to 3:30 Tues. and Thurs.)	3
PSN	300	School Nursing (5:00 - 7:00 P.M.)	2

* (Offerings listed are subject to enrollment)

PHYSICS

Dept.	No.	Course Title	Credits
Sci	150	Basic Physical Science (Lab 1:30 to 3:30 Mon. and Thurs.)	4

MATHEMATICS

Mat	101	Introduction to College Mathematics I (01)	3
Mat	101	Introduction to College Mathematics I (02)	3
Mat	141	Analytics Geometry and Calculus I	3
Mat	351	Teaching of Mathematics in Elementary Schools	3

DIVISION OF SOCIAL SCIENCES

ECONOMICS

Eco	231	Principles of Economics	3

GEOGRAPHY

Geo	101	World Geography	3
Geo	300	Physical Geography	3
Geo	207	Geography of Europe	3

HISTORY

His	101	History of Civilization I	3
His	102	History of Civilization II	3
His	211	History of U.S. & Pa. I	3
His	212	History of U.S. & Pa. II	3
His	313	History of Pennsylvania	3

POLITICAL SCIENCE

PSc	231	American Government	3

PSYCHOLOGY

Psy	100	Introduction to Psychology	3
Psy	352	Adolescent Psychology	3

SOCIOLOGY

Soc	231	Introduction to Sociology	3

SCHOOL OF EDUCATION

Dept.	No.	Course Title	Credits
Edu	100	School and Society	3
Edu	250	Psychology of Learning and Development (01)	3
Edu	250	Psychology of Learning and Development (02)	3
Edu	300	Audio Visual Education (01)	3
Edu	300	Audio Visual Education (02)	3
Edu	300	Audio Visual Education (03)	3
Edu	360	The Culturally Disadvantaged Child (7:00 P.M.)	3
Edu	401	Problems of Elementary Education	3
SpE	344	Problems of Special Education (7:00 P.M.)	3

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

HEd	331	Aquatic Leadership (7:00 P.M). (Water Safety Instructor)	2
HEd	390	Physical Disabilities of Childhood (7:00 P.M.)	2
HEd	481	Introduction to Safety Education (7:00 P.M.)	3

SCHOOL OF MUSIC

Mus	220	Fine Arts	3
Mus	310	History of Music	3

UNDERGRADUATE COURSES OFFERED

Regular Session — June 24 to August 2

(Classes meet daily Monday through Friday unless otherwise indicated)*

(For Course Descriptions, see appropriate undergraduate catalogue)

(No Classes July 4 and July 5; Make-up Day June 29)

STUDENT TEACHING

(Application should be filed prior to May 1)

Dept.	No.	Course Title	Credits
Edu	411	Elementary (June 24 to August 2)	6

FIRST PERIOD: 8:00 - 9:30 A.M.

COLLEGE OF ARTS AND SCIENCES

DIVISION OF ARTS AND LETTERS

ART

Art	101	Fine Arts	3
Art	201	Arts and Crafts	3
Art	404	History of Western Art I	3

ENGLISH

Eng	101	English Composition I (01)	3
Eng	102	English Composition II (01)	3
Lit	121	General Literature I	3
Lit	122	General Literature II	3
Lit	350	Children's Literature	3
Eng	313	Advanced Writing	3

LANGUAGE

Fre	201	Intermediate French I	3
Fre	202	Intermediate French II	3
Spa	101	Elementary Spanish I	3
Spa	102	Elementary Spanish II	3
Ger	101	Elementary German I	3
Ger	102	Elementary German II	3

PHILOSOPHY

Phi	280	Introduction to Philosophy (01)	3

* (Offerings listed are subject to enrollment)

SPEECH

Dept.	No.	Course Title	Credits
Sph	101	Fundamentals of Public Speaking (01) (8:00-9:00)	2
SpS	201	Speech Problems	3
ThA	206	Educational Theatre Production	3

DIVISION OF MATHEMATICS AND SCIENCES

BIOLOGY

Sci	250	Science for the Elementary Grade (01)	3
Bio	262	Human Physiology (Lab 1:30 to 3:30 Tues. and Thurs.)	4

CHEMISTRY

Che	100	Principles of Chemistry (Lab 10:00 to 12:00 Tues. thru Thurs.)	4

PHYSICS

Sci	150	Basic Physical Science (Lab 1:30 to 3:30 Tues. and Thurs.)	4
Phy	101*	Physics I June 24 to July 19 (also meets 11-12:30) (Lab 1:30 to 3:30 as follows: weeks 1 & 4; T., W., Th.) weeks, 2 & 3; M., T., W., Th.)	4
Phy	102*	Physics II July 22 to August 16 (Same hourly schedule as Phy. 101.)	4

MATHEMATICS

Mat	101	Introduction to College Mathematics I (01)	3
Mat	105	College Algebra and Trigonometry	3
Mat	106	Foundations of Mathematics	3

DIVISION OF SOCIAL SCIENCES

ECONOMICS

Eco	333	Consumer Economics	3

GEOGRAPHY

Geo	208	Geography of Latin America	3

HISTORY

His	101	History of Civilization I (01)	3
His	212	History of U.S. & Pa. II (01)	3
His	321	History of England	3

* Students may enroll for Physics I and Physics II only—full load.

POLITICAL SCIENCE

Dept.	No.	Course Title	Credits
PSc	231	American Government (01)	3

PSYCHOLOGY

Psy	100	Introduction to Psychology (01)	3
Psy	241	Psychology of Exceptional Children	3
Psy	251	Human Development (Childhood)	3

SOCIOLOGY

Soc	231	Introduction to Sociology	3

SOCIAL SCIENCE

SSc	300	Seminar in Contemporary European Culture (Student European Tour: Dr. Fleck)	6

For information contact:

Dr. Byron Y. Fleck
Director of Social Sciences
West Chester State College
West Chester, Pennsylvania 19380

SCHOOL OF EDUCATION

Edu	100	School and Society (01)	3
Edu	250	Psychology and Learning and Development (01)	3
Edu	300	Audio Visual Education (01)	3
Edu	300	Audio Visual Education (02)	3
Edu	301	Early Childhood Education	3
Edu	306	Field Experience in Secondary Education	3
Edu	320	Teaching Reading in the Secondary School	3
Edu	351	Evaluation and measurement (01)	2
Edu	410	Early Childhood Enrichment Experience (8:00-12:00)*	6
Edu	441	Workshop in Elementary Education (8:00-12:00)	4

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

HEd	350	Health for the Elementary Grades	3
HEd	451	Community and School Health Education Workshop* (Course will meet the first three weeks of Regular Session from 8:30 a.m. to 3:00 p.m.)	3
HEd	464	Supervised Camping Leadership (Six to eight weeks attendance at camp, July through August. Apply to Mr. Alvin B. Davis, West Chester State College.)	3
HEd	483	Psychology of Accident Prevention	3

* See course description in this Catalogue.

SCHOOL OF MUSIC

Dept.	No.	Course Title	Credits
Mus	211	Sight Singing I	3
Mus	212	Sight Singing II (8:00-9:00)	2
Mus	202	Theory of Music III	3
Mus	301	Theory of Music IV	3
Mus	100	Foundations of Music	3

SECOND PERIOD: 9:30 - 11:00 A.M.

COLLEGE OF ARTS AND SCIENCES

DIVISION OF ARTS AND LETTERS

ART

Art	301	Painting I	3
Art	407	History of Non Western Art	3
Art	310	Sculpture I	3

ENGLISH

Eng	101	English Composition I (02)	3
Eng	102	English Composition II (02)	3
Eng	315	Advanced Grammar	3
Eng	316	Teaching of English in Secondary Schools	3
Eng	314	History of Language	3
Lit	226	English Literature II	3
Lit	334	Shakespeare II	3

LANGUAGE

Fre	101	Elementary French I	3
Fre	102	Elementary French II	3
Spa	201	Intermediate Spanish I	3
Spa	202	Intermediate Spanish II	3
Ger	201	Intermediate German I	3
Ger	202	Intermediate German II	3

PHILOSOPHY

Phi	280	Introduction to Philosophy (02)	3
Phi	485	Contemporary Philosophy	3

DIVISION OF MATHEMATICS AND SCIENCES

BIOLOGY

Bio	100	Basic Biological Science (Lab 1:30 to 3:30 Tues. and Thurs.)	4
Bio	142	Zoology II (Lab 1:30 to 3:30 Mon. and Wed.)	4
Sci	250	Science for the Elementary Grades (02)	3
PSN	303	Public Health Nursing II	3

CHEMISTRY

Dept.	No.	Course Title	Credits
Che	103*	General Chemistry I June 24 to July 19 (Lecture: 9:30 - 11:30 Mon. thru Fri. Lab: 12:30 - 3:30 Mon. thru Thurs.)	4
Che	104*	General Chemistry II July 22 to August 16 (Same hours as Che 103.)	4
Che	231*	Organic Chemistry I June 24 to July 19 (Lecture: 9:30 - 11:30 Mon. thru Fri. Lab: 12:30 - 3:30 Mon. thru Thurs.)	4
Che	232*	Organic Chemistry II July 22 to August 16 (Same hours as Che 231.)	4

PHYSICS

Sci	350	Teaching Science in Secondary Schools	3

MATHEMATICS

Mat	101	Introduction to College Mathematics I (02)	3
Mat	142	Analytic Geometry and Calculus II	3
Mat	411	Modern Algebra I	3
CSc	101	Computer Programming	3

DIVISION OF SOCIAL SCIENCES

ANTHROPOLOGY

Ant	231	Introduction to Cultural Anthropology	3

ECONOMICS

Eco	231	Principles of Economics	3

GEOGRAPHY

Geo	101	World Geography	3
Geo	211	Map Appreciation and Interpretation	3

HISTORY

His	102	History of Civilization II	3
His	211	History of U.S. & Pa. I	3
His	315	Economic History of U.S.	3

POLITICAL SCIENCE

PSc	231	American Government (02)	3
PSc	334	American Political Parties	3

* Students may enroll for General Chemistry I and General Chemistry II or Organic Chemistry I and Organic Chemistry II only—full load.

PSYCHOLOGY

Dept.	No.	Course Title	Credits
Psy	100	Introduction to Psychology (02)	3
Psy	343	Psychology of the Mentally Retarded	3
Psy	361	Applied Psychology	3

SCHOOL OF EDUCATION

Edu	100	School and Society (02)	3
Edu	300	Audio Visual Education (03)	3
Edu	300	Audio Visual Education (04)	3
Edu	250	Psychology of Learning and Development (02)	3
Edu	309	Language Arts (01) (9:30-12:30)	6
Edu	309	Language Arts (02) (9:30-12:30)	6
Edu	317*	Oral and Written Expression in the Elem. School	3
Edu	319*	Reading in the Elementary School	3
Edu	321	Diagnostic and Remedial Reading	3
Edu	401	Problems of Elementary Education	3

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

HEd	352	Methods and Materials of Health Ed.	2
HEd	482	Driver Education and Training	3

SCHOOL OF MUSIC

Mus	220	Fine Arts	3

THIRD PERIOD: 11:00 - 12:30 P.M.

COLLEGE OF ARTS AND SCIENCES
DIVISION OF ARTS AND LETTERS

ART

Art	202	Art for the Elementary Grades	3
Art	320	Drawing I	3

ENGLISH

Eng	000	Composition (Remedial)	0
Eng	102	English Composition II (03)	3
Lit	224	American Literature II	3
Lit	348	Short Story	3
Eng	319	Linguistics	3

PHILOSOPHY

Phi	490	Logic	3

* Open by permission. See Dr. King.

SPEECH

Dept.	No.	Course Title	Credits
Sph	101	Fundamentals of Public Speaking (02) (11:00-12:00)	2
SpS	301	Hearing Problems	3

DIVISION OF MATHEMATICS AND SCIENCES

BIOLOGY

Bio	112	Botany II (Lab 1:30 to 3:30 Tues. and Thurs.)	4
Bio	341	Basic Entomology (Elementary Educ. Students only)	3
PSN	320	Problems School Nursing	3

PHYSICS

Phy	330	General Astronomy	3

MATHEMATICS

Mat	241	Analytic Geometry and Calculus III	3
Mat	351	Teaching of Mathematics in Elementary Schools	3

DIVISION OF SOCIAL SCIENCES

GEOGRAPHY

Geo	314	Geography of the U.S. & Pa.	3

HISTORY

His	101	History of Civilization I (02)	3
His	212	History of U.S. & Pa. II (02)	3
His	324	History of Latin America	3

POLITICAL SCIENCE

PSc	231	American Government (03)	3
PSc	333	International Politics	3

PSYCHOLOGY

Psy	352	Adolescent Psychology	3
Psy	370	Mental Hygiene	3
Psy	375	Abnormal Psychology	3

SOCIOLOGY

Soc	333	The Family	3

SOCIAL SCIENCE

Dept.	No.	Course Title	Credits
SSc	331	Teaching Soc. Stud. in the Secondary Schools	3
SSc	332	Teaching Soc. Stud. and Geography (Elem.)	3

SCHOOL OF EDUCATION

Edu	100	School and Society (03)	3
Edu	300	Audio Visual Education (05)	3
Edu	150	Introduction to Guidance and Counseling	3
Edu	250	Psychology of Learning and Development (03)	3
Edu	351	Evaluation and Measurement (02)	2
SSc	332	See: Social Science	

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

HEd	391	Psychology-Physically Handicapped	3

SCHOOL OF MUSIC

Mus	110	Theory of Music I	3
Mus	201	Theory of Music II	3
Mus	220	Fine Arts	3
Mus	171-8	Symphony Orchestra	.5

FOURTH PERIOD: 12:30 - 3:30 P.M.

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

HEd	101	Survey of Physical Education I (12:30 - 1:30 p.m.)	1
HEd	102	Survey of Physical Education II (12:30 - 1:30 p.m.)	1
HEd	201	Practice and Theory in Elem. Phys. Educ. (12:30 - 1:30 p.m.)	1
HEd	150	Health (12:30 - 2:00 p.m. Mon. thru Thurs.)	2

SCHOOL OF MUSIC

Mus	332	Instrumental Conducting (12:30 - 1:30 p.m.)	2
Mus	161-8	Choir (1:30 - 2:30 p.m.)	.5
Mus	181-8	Concert Band (2:30 - 3:30)	.5
		by appointment; Instruments (Individual Lessons)	
		by appointment; Voice (Individual Lessons)	
		by appointment; Piano (Individual Lessons)	

UNDERGRADUATE COURSES OFFERED

Post Session — August 5 to August 23

(Each class meets 8:00 - 9:30 a.m. and 10:30 - 12:00 Noon)*

(For course description, see appropriate undergraduate catalogue)

COLLEGE OF ARTS AND SCIENCES

DIVISION OF ARTS AND LETTERS

ENGLISH

Dept.	No.	Course Title	Credits
Eng	000	Composition (Remedial) (01)	0
Eng	000	Composition (Remedial) (02)	0
Eng	000	Composition (Remedial) (03)	0
Eng	101	English Composition I	3
Lit	121	General Literature I	3
Lit	122	General Literature II	3
Lit	350	Children's Literature	3

LANGUAGE

Fre	102	Elementary French II	3
Fre	201	Intermediate French I	3
Fre	202	Intermediate French II	3
Spa	102	Elementary Spanish II	3
Spa	201	Intermediate Spanish I	3
Spa	202	Intermediate Spanish II	3
Ger	102	Elementary German I	3
Ger	201	Intermediate German I	3
Ger	202	Intermediate German II	3

PHILOSOPHY

Phi	484	American Philosophy	3

SPEECH

Sph	101	Fundamentals of Public Speaking	2

DIVISION OF MATHEMATICS AND SCIENCES

BIOLOGY

Bio	100	Basic Biological Science (Lab 1:30 to 3:30 Tues. and Thurs.)	4
Bio	241	Field Zoology	3
PSN	304	Foundations of Nutrition	3

* Offerings listed are subject to enrollment.

PHYSICS

Dept.	No.	Course Title	Credits
Sci	150	Basic Physical Science (Lab 1:30 to 3:30 Mon. and Thurs.)	4

MATHEMATICS

Mat	101	Introduction to College Mathematics I (01)	3
Mat	101	Introduction to College Mathematics I (02)	3
Mat	102	Introduction to College Mathematics II	3
Mat	105	College Algebra and Trigonometry	3
Mat	351	Teaching of Mathematics in Elementary Schools	3

DIVISION OF SOCIAL SCIENCES

ECONOMICS

Eco	231	Principles of Economics	3

GEOGRAPHY

Geo	101	World Geography	3
Geo	203	Economic Geography	3
Geo	209	Geography of United States in its Global Relations	3
Geo	415	Area Field Study in Europe (Advanced reservation necessary by writing to the Geography Department.)	3

HISTORY

His	101	History of Civilization I	3
His	102	History of Civilization II	3
His	211	History of U.S. & Pa. I	3
His	212	History of U.S. & Pa. II	3

POLITICAL SCIENCE

PSc	231	American Government	3

PSYCHOLOGY

Psy	100	Introduction to Psychology	3
Psy	243	Psychology of the Mentally Retarded	3
Psy	352	Adolescent Psychology	3
Psy	241	Psychology of the Exceptional Child	3

SOCIOLOGY

Soc	231	Introduction to Sociology	3

SOCIAL SCIENCE

Dept.	No.	Course Title	Credits
SSc	332	Teaching Social Studies and Geography (Elem.)	3

SCHOOL OF EDUCATION

Edu	100	School and Society	3
Edu	300	Audio Visual Education (01)	3
Edu	300	Audio Visual Education (02)	3
Edu	321	Diagnostic and Remedial Reading	3
Edu	250	Psychology of Learning and Development	3
Edu	351	Evaluation and Measurement	2
Edu	401	Problems of Elementary Education	3
SSc	332	See: Social Science	

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

HEd	484	Methods and Materials in Safety Education	3

SCHOOL OF MUSIC

Mus	220	Fine Arts	3
Mus	233	Acoustics	3
Mus	251	Music for the Primary Grades	3

PRE-REGISTRATION INSTRUCTIONS

All prospective summer school students **must** fill out the **Pre-Registration Information Card** which is enclosed in this catalogue. Please give the information requested as well as the courses you wish to take during the Summer Sessions. Return this card to Admission's Office, West Chester State College, West Chester, Pennsylvania, 19380.

Pre-registration for the three summer sessions (Pre, Regular, and Post) will terminate the **Monday prior** to the General Registration and Payment Dates of June 3—Pre; June 24th—Regular; August 5—Post. Any student who fails to furnish **Pre-Registration Information Forms** to the College by the pre-registration deadline will be subject to a late pre-registration fee of ten dollars ($10.00). Also, there will be a Change-of-Course fee of $5.00 on registration day for any student who wishes to change a course after having pre-registered. Therefore, all changes of courses must be made prior to the three deadlines mentioned above. ALL SUMMER SCHOOL FEES ARE DUE AND PAYABLE ON THE GENERAL REGISTRATION DATES.

SUMMER GRADUATION

Students who anticipate graduation at the end of any of the 1968 summer sessions are urged to attend commencement exercises in May of 1968.

The Undergraduate Office must be notified of your anticipated graduation. It is your responsibility to call at the Undergraduate Office and complete a diploma order card and an application for the provisional certificate provided you are a student in teacher education.

1. ANDERSON HALL
2. BOILER PLANT
3. LABORATORY SCHOOL
4. EHINGER GYMNASIUM
5. FARRELL STADIUM
6. MAINTENANCE GARAGE
7. GOSHEN RESIDENCE HALL
8. OLD LIBRARY ANNEX
9. HOLLINGER FIELD HOUSE
10. PARKING
11. PARKING
12. KILLINGER RESIDENCE HALL
13. COLLEGE LAUNDRY
14. LAWRENCE CENTER (DINING HALL)
15. FRANCIS HARVEY GREEN LIBRARY
16. PARKING
17. ELECTRIC SUBSTATION
18. McCARTHY RESIDENCE HALL
19. OLD GYMNASIUM
20. OLD MAIN
21. PHILIPS MEMORIAL BUILDING
22. RAMSEY RESIDENCE HALL
23. OLD RECITATION HALL
24. REYNOLDS HALL
25. SCHMUCKER SCIENCE CENTER I
26. SCHMUCKER SCIENCE CENTER II
27. PLAYING FIELD
28. SPECIAL EDUCATION BUILDING
29. SWOPE HALL
30. TENNIS COURTS
31. TYSON RESIDENCE HALL
32. FOOTBALL STAFF OFFICES
33. PHYSICAL EDUCATION RESEARCH CENTER
34. EDUCATIONAL DEVELOPMENT CENTER
35. SPEECH AND HEARING CLINIC
36. SMITH HOUSE
37. PHYSICAL THERAPY CENTER
38. GENERAL STATE AUTHORITY OFFICES
39. PARKING

WEST CHESTER
STATE COLLEGE

West Chester State College Bulletin
WEST CHESTER, PENNSYLVANIA, 19380

Entered as second-class matter
March 3, 1931, at the Post Office
at West Chester, Pa.

Summer Sessions 1968

Undergraduate
Courses for Permanent Certification